



MCL

A Subsidiary of Coal India Limited

REM ANNUAL REPORT 2021-22

TALCHER COALFIELD

**CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD, RI VII,
BHUBANESWAR**

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A Mini Ratna Company

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JOB NO.750001

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1.IB VALLEY COALFIELD

INTRODUCTION

Talcher coalfield is an important coalfield of the country which is a part of Mahanadi Coalfields Limited (MCL), fully owned subsidiary of Coal India Limited a *Maharatna* company.

It is bound by Lat. 20° 45' to 21° 20'N and Long. 84° 20' to 85° 32' E, falling mostly in Angul and partly in Dhenkanal, Deogarh and Sambalpur districts. It occupies an area of about 1800 sq. km. having an elliptical outline with its longer axis trending in WNW-ESE direction and maximum width of about 26 km as observed in the west central part.

MCL realized 168.17 Metric tonne (MT) of coal production in the year 2021-2022 of which Talcher coalfield contributed 96.736 MT coal production. Coal uptake of 176.17 MT was realized by MCL in the year 2021-2022.

TOPOGRAPHY

Topographically the coalfield can be divided in two parts - eastern part and the western part. The eastern part largely covered by Barakar Formation (or Lower Kamthi Formation), is slightly undulating with an average elevation of around 150m above MSL. The western part comprises largely of steeply sloping Kamthi hillocks. Minimum and maximum elevation from MSL is 60m and 567m respectively for the coalfield. The terrain is undulating and accommodates large number of villages and fertile lands. The soil in this area varies from rich loams to the gravelly detritus of the hill slopes.

The coalfield is drained by the Brahmani River flowing along eastern fringe of the coalfield. Singhadajhor, Nandira and Tikra, Aunli are some of the important tributaries of the Bramhani River.

CLIMATE

The climate of the area is generally dry and arid except in monsoon season. It is influenced by prevalence of dry air of the continental type. It is characterized by extreme conditions, summers being intensely warm and winters rather cold. The summer is severe during May-June when temperature rises as high as 49°C accompanied by high humidity. Winter is pleasant, prevails during December-January. The area experiences warm to hot climate with temperature varying from 7.6°C to 41.9°C [4]. Average humidity varies from 26% to 83%. Generally the humidity is highest in August and least in March. The climate of this region resembles with that of Deccan plateau.

Annual mean wind velocity is around 2 Km/hr. [4] It is generally observed that the wind speed in the area is light to moderate except in the early monsoon period when it is generally strong. Higher speed wind blows during latter part of summer or rainy season in the direction of mostly South-West or North-East. Winds blow with slow or moderate speed in rest part of the year. In winter the winds blow either from West or North.

The area has monsoon type climate with rain fall predominantly in the months of June to September and some in the other months. Average rainfall per annum of the area is >1000 mm. Rainfall during August, 2021 in Angul district is around 357.5 mm and around 225.1 mm in June, 2021 as per Odisha Rainfall Monitoring System.

MINING AREA

List of approved projects with sanctioned Environmental Clearance of Talcher Coalfield is as follows

Table 1

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Name of the Project	Approved EC (MTY) and date
Jagannath OCP	7.5 (09-09-20)
Bhubaneswari OCP	28 (02-05-22)
Bharatpur OCP	20 (27-05-21)
Chhendipada OCP	0.35 (30-06-2000)
Ananta OCP	20 (10-12-14 & amended on 16-02-18)
Lingaraj OCP	20 (27-11-15)
Kaniha OCP	14 (17-07-17)
Hingula - II OCP	15 (28-10-15)
Balram OCP	8.00 (24-10-90)
Nandira UG	0.33 (02-05-22)
Natraj UG	0.64 (27-05-2021)
Talcher (W) UG	0.52 (08-11-07)
Jagannath UG	0.67 (08-11-07)
Mandapal Sand Mine	28-01-2016
Deulbera UG	0.20 (22-06-92)

accessible at about 100-150 km distance from Talcher.

COMMUNICATION

The south-eastern part of the coalfield where the coal mining activities are taking place at present, is connected by rail to Bhubaneswar (150 Km.) - the capital city of Odisha and located on Howrah-Chennai main railway line. It is also connected by rail and road to Paradeep port. National Highway No.42 connecting Cuttack Angul- Sambalpur passes more or less parallel to the southern fringe of the coalfield at about 5 to 7 Km. NH-23 connecting Talcher-Samal-Pallahara passes through the eastern part of the coalfield. Another prominent district road is Angul-Chhendipada Deogarh road passing through the central part of the coalfield. NH-200 originating from Chandikhol, also passes through north eastern part of the coalfield and joins with NH-23.

The coalfield is also suitably connected by railway network. Sambalpur Talcher rail link, the connector to Howrah-Mumbai and Howrah-Chennai main railway lines, runs almost parallel to NH-42 and passes across the study area in east-west direction. The rail link carries heavy goods traffic of the industrial and mining activities of the region to the main network lines which are

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2. PERFORMANCE SUMMARY

Routine Environment Monitoring (REM) work of Mahanadi Coalfields Limited (MCL) mines in Talcher and IB Valley coalfield is undertaken by CMPDI RI-VII Bhubaneswar. MCL is having an incremental coal production every year. The increase in coal production simultaneously increases the pollution load. Because of which Ministry of Environment, Forest & Climate Change (MoEF&CC) has directed MCL to undertake the Routine Environmental Monitoring in core zone & buffer zone. In order to comply with the condition of MoEF&CC, MCL has increased the periodic monitoring. Reference monitoring station (NAAQS complied) located in the buffer zone are also included to monitor & study the impact of mining on residential area in and around mines.

In the financial year 2020-2021, REC Lab, CMPDI RI 7 analysed around 11,295 samples for different parameters. In FY 2021-22 as per work order, the samples analysed were around 12,198.

With almost 8 % growth, we at REC Lab, CMPDI, RI VII plan to expand our capital and maximise our in-house testing. by starting analysis of Benzene-Benzo alpha Pyrene in water samples using Gas Chromatography (GC). It is likely to be the first Regional Institute operating GC for the analysis. A Microbiological testing lab is being made functional for testing presence of harmful coliforms in water.

Capital purchases of a second Atomic Absorption Spectrophotometer (AAS) along with a Chiller & Microwave Digester are complete to smoothly execute work at laboratory.

Table 3
Nos of Samples Air, Water & Noise (2020-2021 Vs 2021-2022)

Parameters	Total Samples done in 2020-21	Total Samples done in 2021-22	Total Samples Target for 2022-23
Air Samples	6718	7200	7608
Water Samples	1813	1830	1969
Noise Samples	2764	3168	3120

Source: Presentation from Environment Dept. CMD's meet July 2022

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Table 4

3. LIST OF MONITORING STATIONS AS PER WORK ORDER

List of Air Quality Monitoring Stations & frequency of monitoring

Ar	Project (OCP/UG)	Name of Air Monitoring Station	Type of Station
Jagannath	Jagannath	Near NBVL Station	Compliance Station
		Near MDTP	Compliance Station
		Central Nursery (Reported Only)	
		CWS Colony, MEETI	Reference Station
	Ananta	Near NBVL Station (Reported only)	Compliance Station
		North-East of Mine	Compliance Station
		Central Nursery	Compliance Station
		Guthasahi Village	Reference Station
Bharatpur	Bharatpur	Near ETP/Workshop	Compliance Station
		North-West Point of the Mine	Compliance Station
		Near MGR-RLS of Bharatpur	Compliance Station
		Near Regional Store	Compliance Station
		Natedi Village (Reported only)	
		Near Joragadia Village	Reference Station
	Chhendipada	Security Post of Chhendipada OCP	Reference Station
Lingaraj	Lingaraj	Near OB Dump no. 5 (South Side of the Mine)	Compliance Station
		Near OB Dump no. 10 (North Side of the Mine)	Compliance Station
		IWSS	Compliance Station
		Near Lingaraj to Dear Road	Compliance Station
		Near Kankili Community Centre	Reference Station
Kaniha	Kaniha	Project Office	Compliance Station
		New Time Office (Near Z-Patch)	Compliance Station
		Old Site Office	Compliance Station
		North East Side of Project Office	Compliance Station
		Near Jatra Padia, Jarada	Compliance Station
		Near External OB Dump, Jamania	Compliance Station
		West of Mine Quarry	Compliance Station
		South of Proposed Quarry Limit of KOCP	Reference Station
Hingula	Hingula	Time Office	Compliance Station
		South West Side of the Mine	Compliance Station
		North of the Mine, Purnapi, Kumunda Village	Reference Station
		North East of the Mine, Solada Village	Reference Station
	Balram	South West of the Mine	Compliance Station
		Pump House near Outsourcing Working Patch & Coal Transport Road	Compliance Station
		North West of the Mine, Solada Village (Reported only)	
		East of the Mine, Natedi Village	Reference Station
Talcher	Talcher	Near Canteen Talcher Colliery	Compliance Station
		Officer Club, Talcher Area	Compliance Station
	Nandira	Project Office	Compliance Station
		Sub-station	Compliance Station
		Near Natedi Village (Reported Only)	
	Nandira Colony	Reference Station	
Deulbera	IWSS, Talcher (Reported Only)	Compliance Station	

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	Handhidhua Colliery	Manager's Office	Compliance Station
	Mandapal Sand Mine	Near Mandapal Chowk	Compliance Station
		Near Pachismeshwar Temple	Compliance Station
	Kakudi & Kishoripal Sand Mine	Near Kishoripal Village	Compliance Station

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List of Noise Level Monitoring Stations

Area	Project (OCP/UG)	Name of the Station
Jagannath Bharatpur Jagannath	Jagannath OCP	Central Nursery (Repeated)
		Near NBVL Station
		Near MDTP
		CWS Colony, MEETI
	Ananta OCP	Central Nursery
		Near NBVL Station (Repeated)
		North East of the Mine
		Guthasahi Village
	Bharatpur OCP	Near Workshop
		North-West Point of the Mine
		Near MGR-RLS of Bharatpur
		Near Regional Store
Lingaraj	Lingaraj OCP	Near OB Dump no. 5 (South Side of the Mine)
		Near OB Dump no. 10 (North Side of the Mine)
		IWSS
		Near Lingaraj to Dera Road
Kaniha	Kaniha OCP	Patharmunda Village
		Telisingha Village
		Near Jarda Village
		Site Office
Hingula	Hingula OCP	Time Office
		South West Side of the Mine
		North of the Mine, Purnapi, Kumunda Village
		North East of the Mine, Solada Village
	Balaram OCP	Near Project Office, Balaram OCP
		Backfilled Area near Dozer Shed
		South West of the Mine
		Pump House Near Outsourcing Working Patch & Coal Transport Road
Talcher	Talcher Colliery	Near Canteen, Talcher Colliery
		GM Office, Talcher Area
	Nandira Colliery	Project Office
		Sub-Station, Nandira colliery
	Deulbera Colliery	Manager's Office
	Mandapal Sand Mine	Near Gopinathpur Village
	Kakudi & Kishoripal Sand Mine	Near Kishoripal village

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List of Effluent (22 Parameter) Quality Monitoring Stations

Area	Project (OCP/UG)	NAME OF STATION
Jagannath	Jagannath	O & G Trap Outlet
		STP Outlet
		Near MDTP
		West Sump
		Central Sump
	Ananta	Mine Sump Water
Bharatpur	Bharatpur	Workshop ETP Clear Water Tank Outlet
		STP Outlet
		Water Loading Point at South Quarry Sump
		Mine Sump (Old Quarry Sump)
Lingaraj	Lingaraj	Inlet of Workshop ETP
		Clear Water Reservoir of Workshop ETP
		Inlet of MDTP Near Stock No. 17
		Clear Water Tank of MDTP Near Stock No. 17
		Inlet of Sedimentation Pond Complex near Lingraj Siding
		Clear Water Tank of Sedimentation Pond Complex Near Lingraj Siding
		Inlet of Sedimentation Pond Complex near Project Office
		Clear Water Reservoir of Sedimentation Pond Complex near Project Office
		Inlet of Sedimentaion Pond Complex near Deulbera Siding
		Clear Water Tank of Sedimentation Pond Complex Near Deulbera
		Mine Sump Water
		Clear Water Pond
Kaniha	Kaniha	Clear Water Pond
Hingula	Hingula	Mine Sump Water
	Balaram	Mine Sump Water
Talcher	Talcher	Talcher Colliery Sedimentation Tank Discharge
	Nandira	Nandira Colliery Sedimentation Tank Discharge
	Deulbera colliery	Deulbera Colliery Mine Discharge at Pit Top
		Rani Park Submersible Pump
	Handhidhua Colliery	Handhidhua Colliery Mine Discharge
		19X Cut Road Bore Hole Point

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List of Effluent (4 Parameter) Quality Monitoring Stations

Area	Project (OCP/UG)	NAME OF STATION
Jagannath	Jagannath	O & G Trap Inlet
		O & G Trap Outlet
		Near MDTP
	Ananta	O & G Trap Intlet
		O & G Trap Outlet
Bharatpur	Bharatpur	Oil & Grease Trap Inlet
Lingaraj	Lingaraj	Workshop ETP Clear Water Tank
		Inlet of Workshop ETP
		Clear Water Reservoir of Workshop ETP
		Inlet of MDTP Near Stock No. 17
		Clear Water Tank of MDTP Near Stock No. 17
		Inlet of Sedimentation Pond Complex near Lingaraj Siding
		Clear Water Tank of Sedimentation Pond Complex Near Lingaraj Siding
		Inlet of Sedimentation Pond Complex near Project Office
		Clear Water Reservoir of Sedimentation Pond Complex near Project Office
		Inlet of Sedimentaion Pond Complex near Deulbera Siding
		Clear Water Tank of Sedimentation Pond Complex Near Deulbera
Kaniha	Kaniha	Pre Sedimentation Pond
		Clear Water Pond
		Kansamunda Sump
		Z-Patch Sump
Hingula	Hingula	Inlet of O & G Trap
		Outlet of O & G Trap
		Mine Sump Water
	Balram	Inlet of O & G Trap
		Outlet of O & G Trap
		Mine Sump Water
Talcher	Talcher	Talcher Colliery Sedimentation Tank Discharge
	Nandira	Nandira Colliery Sedimentation Tank Discharge
	Deulbera Colliery	Deulbera Colliery Mine Discharge at Pit Top
		Ranipark Submersible Pump
	Handhidhua Colliery	Handhidhua Colliery Mine Discharge
		19X Cut Road Bore Hole Point

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List of Effluent (3 Parameter) Quality Monitoring Stations

Area	Project (OCP/UG)	NAME OF STATION
Jagannath	Jagannath	STP Inlet
		STP Outlet
	Ananta	STP Intlet
		STP Outlet
Bharatpur	Bharatpur	STP Intlet
		STP Outlet (pH, TSS, Faecal Coliform, BOD)
Hingula	Balram	STP Intlet of Balram Colony
		STP Outlet of Balram Colony

List of Effluent (1 Parameter) Quality Monitoring Stations

Area	Project (OCP/UG)	NAME OF STATION
Jagannath	Jagannath	West Sump
		Central Sump
	Ananta	Mine Sump Water
Bharatpur	Bharatpur	Mine Sump Water - South Quarry Sump
		Mine Sump Water - Main Sump
		Mine Sump Water - Old Quarry Sump
Lingaraj	Lingaraj	Mine Sump Water

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List of Drinking Water Quality Monitoring Stations

AREA	OCP/UG MINE	NAME OF OCP/UG MINE
Jagannath	Jagannath	Balanda Colony Tap Water
		Jagannath Colony Tap Water
	Ananta	Ananta Colony Tap Water
		Dera village Tube Well Water
Bharatpur	Bharatpur	Tap Water in Nehru Shatabdi Nagar A Type Quarters
		Tap Water in Nehru Shatabdi Nagar B Type Quarters
		Tap Water in Nehru Shatabdi Nagar C Type Quarters
		Tap Water in Nehru Shatabdi Nagar Transit House
		Joragadia Village Open Well
		Time Office, BOCP
		Badasinga Village Open Well
		Taleipasi Village Open Well
Lingraj	Lingraj	GM Office, Lingraj Area Tap Water
		Balunga Khamar Village Well
		Deulbera Village Well
		Talabera Village Well
Kaniha	Kaniha	Tube Well at Coal Analysis Lab
		Jarda Village Well Water
Hingula	Hingula	Time Office Water
		Gopalprasad Village Bore Well Water
		Kumunda Village Bore Well Water
	Balram	Danara Village Borewell Water
		Balaram Colony Tap Water
		Nakeipasi Village Bore Well Water
Talcher Area	Talcher Colliery	Tap-Water, GM Office
		Canteen Tap-Water, Talcher Colliery
	Nandira Colliery	Canteen Tap-Water
		Pit Top Tap Water
	Deulbera colliery	Deulbera Manager Office Tap Water
	Handhidhua colliery	Pit Top Tap Water (Monthly)

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List of Well Water Level Stations

AREA	OCP/UG MINE	NAME OF OCP/UG MINE
Jagannath	Jagannath	Rakas Village Well
	Ananta	Dera Village Well Water
Bharatpur	Bharatpur	Badasinghada Village Open Well
		Danara Village Well
		Taleipasi Village Open Well
Lingraj	Lingraj	Balunga Khamar Village Well
		Deulbera Village Well
		Talabera Village Well
Hingula	Hingula	Gopal Prasad Village Well
		Kusumpal Village Well
	Balram	Danara Village Well
		Nakeipasi Village Well
Talcher	Talcher Colliery	Dera Village Well Water (Reported)
	Nandira Colliery	Natedi Village
	Deulbera Colliery	Deulbera Village well (Reported)

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List of Surface Water Monitoring Stations

AREA	Project/OCP	NAME OF STATION
Jagannath	Jagannath	Upstream of Bangaru Jhor Nallah
		Downstream of Banagaru Jhor Nallah
Bharatpur	Bharatpur	Bangaru Jhor river near Joragarhia as downstream water point of Bharatpur OCP
		Jambubahali Village Pond
Kaniha	Kaniha	Singada jhor stream nearer to Village Khairnali as u/s Water for Kaniha OCP
		Before Junction Point of Singadajhor & Brahmani River at Balangi Village as d/s for Kaniha OCP
		Tikra Nadi Near Kaniah Village as u/s Water for Kaniah OCP
		Tikra Nadi Near Shagarhi Pala Village as d/s Water for Kaniah OCP
Hingula	Hingula	Singadhajhor Stream Near HOCP
		Pond Water of Kankarei Village
	Balaram	Derjenga reservoir as a part of Impact Study
Talcher		Pond water of Ambapal village
	Talcher	Pond Water of Dera Village
	Nandira	Jambubahali Village Pond
	Deulbera	Pond Water of Gopinathpur Village
	Mandapal Sand Mine	Upstream - At 200 m before leasehold area
		Downstream - At 200 m after leasehold area
	Kakudi and Kishoripal Village	Upstream - At 200 m before leasehold area
		Downstream - At 200 m after leasehold area

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List of Piezometer Monitoring Stations

AREA	OCP/UG MINE	NAME OF OCP/UG MINE
Jagannath	Jagannath	Piezometer no. MTP 04, GW level & quality (in May)
		Piezometer no. MTP 04, GW level (Aug, Nov, Jan)
	Ananta	Piezometer no. MTP 05, GW level & quality (in May)
		Piezometer no. MTP 05, GW level (Aug, Nov, Jan)
	Bhubaneswari	Piezometer no. MTP 07, GW level & quality (In May)
		Piezometer no. MTP 07, GW level (Aug, Nov, Jan)
		Piezometer no. MTP 08, GW level, quantity & quality (In May)
		Piezometer no. MTP 08, GW level, quantity & quality (Aug, Nov, Jan)
Bharatpur	Bharatpur	Piezometer no. MTP 09, GW level & quality (in May)
		Piezometer no. MTP 09, GW level (Aug, Nov, Jan)
		Piezometer no. MTP 10, GW level & quality (in May)
		Piezometer no. MTP 10, GW level (Aug, Nov, Jan) (Reported only)
	Chhendipada	Piezometer no. MTP 21, GW level & quality (in May)
		Piezometer no. MTP 21, GW level (Aug, Nov, Jan)
		Piezometer no. MTP 22, GW level & quality (in May)
		Piezometer no. MTP 22, GW level (Aug, Nov, Jan)
Lingraj	Lingraj	Piezometer no. MTP 01, GW level & quality (in May)
		Piezometer no. MTP 01, GW level (Aug, Nov, Jan)
		Piezometer no. MTP 06, GW level & quality (in May)
		Piezometer no. MTP 06, GW level (Aug, Nov, Jan)
Kaniha	Kaniha	Piezometer no. MTP 18, GW level & quality (in May)
		Piezometer no. MTP 18, GW level (Aug, Nov, Jan)
		Piezometer no. MTP 19, GW level & quality (in May)
		Piezometer no. MTP 19, GW level (Aug, Nov, Jan)
		Piezometer no. MTP 20, GW level & quality (in May)
		Piezometer no. MTP 20, GW level (Aug, Nov, Jan)
Hingula	Hingula	Piezometer no. MTP 14, GW level & quality (in May)
		Piezometer no. MTP 14, GW level (Aug, Nov, Jan)
		Piezometer no. MTP 15, GW level & quality (in May)
		Piezometer no. MTP 15, GW level (Aug, Nov, Jan)
		Piezometer no. MTP 16, GW level & quality (in May)
		Piezometer no. MTP 16, GW level (Aug, Nov, Jan)
	Balram	Piezometer no. MTP 10, GW level & quality (in May)
		Piezometer no. MTP 10, GW level (Aug, Nov, Jan)
		Piezometer no. MTP 12, GW level & quality (in May)
		Piezometer no. MTP 12, GW level (Aug, Nov, Jan)
	Balram	Piezometer no. MTP 13, GW level & quality (in May)
		Piezometer no. MTP 13, GW level (Aug, Nov, Jan)

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Talcher		Piezometer no. MTP 17, GW level & quality (in May)
		Piezometer no. MTP 17, GW level (Aug, Nov, Jan)
	Nandira Colliery	Piezometer no. MTP 11, GW level & quality (in May)
		Piezometer no. MTP 11, GW level (Aug, Nov, Jan)
	Handhidhua Colliery	Piezometer no. MTP 03, GW level & quality (in May)
		Piezometer no. MTP 03, GW level (Aug, Nov, Jan)

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4. FREQUENCY OF MONITORING

Table 05: Frequency of Monitoring

S. No.	Parameters	Sampling Frequency
1.	Air (5 Parameter) Quality Monitoring	Fortnightly/Weekly Twice
2.	Noise level (Day & Night) Monitoring	Fortnightly
3.	Effluent (1 Parameter) Quality Monitoring	Quarterly/Yearly
4.	Effluent (4 & 3 Parameter) Quality Monitoring	Fortnightly/Monthly/Quarterly
5.	Effluent (22 Parameter) Quality Monitoring	Yearly
6.	Drinking Water (26Parameter) Quality Monitoring	Monthly
7.	Piezometer & Ground Water Level Monitoring	Quarterly
8.	Surface Water (21 Parameter) Quality Monitoring	Half Yearly

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5. METHODOLOGY AND INSTRUMENTS USED

Table 6: Methodology used for Analysis

S.No	Materials or Products tested	Parameter	Test Method Specification
1	Ambient Air	NO ₂	IS 5182 (Part 6): 2012
2	Ambient Air	PM 10	IS 5182 (Part 23): 2012
3	Ambient Air	PM 2.5	Quality Assurance Guidance Document 2.12 Monitoring PM _{2.5} in Ambient Air Using Designated Reference or Class I Equivalent Methods: 2016
4	Ambient Air	SO ₂	IS 5182 (Part 2): 2012
5	Drinking Water	Arsenic	APHA 3114C: 2017
6	Drinking Water	Boron	IS 3025 (part 57): 2005
7	Drinking Water	Boron	APHA 4500-B B.C: 2017
8	Drinking Water	Cadmium	APHA 3113 B: 2017
9	Drinking Water	Copper	APHA 3111 A,B: 2017
10	Drinking Water	Copper	IS 3025 (Part 42): 2014
11	Drinking Water	Iron	APHA 3111 A,B: 2017
12	Drinking Water	Iron	IS 3025 (Part 53):
13	Drinking Water	Lead	APHA 3113 B : 2017
14	Drinking Water	Manganese	APHA 3111 A,B: 2017
15	Drinking Water	Total Chromium	IS 3025 (Part 52): 2014
16	Drinking water	Total Chromium	APHA 3113 B: 2017
17	Drinking water	Zinc	IS 3025 (Part 49): 2014
18	Drinking water	Alkalinity (as CaCO ₃)	IS 3025 (Part 23): 2014
19	Drinking Water	Calcium	IS 3025 (Part 40): 2014
20	Drinking Water	Chlorides	IS 3025 (Part 32): 2014
21	Drinking Water	Color	APHA 2120 C: 2017
22	Drinking Water	Flouride	APHA 4500-F-D: 2017
23	Drinking Water	Nitrate	APHA 4500 NO ₃ B: 2017
24	Drinking Water	pH	APHA 4500 H-B: 2017
25	Drinking Water	pH value	IS 3025 (Part 11) :
26	Drinking Water	Sulphate	APHA 4500 SO ₄ E: 2017
27	Drinking Water	Total Dissolved Solids	IS 3025 (Part -16):
28	Drinking Water	Total Hardness (CaCO ₃)	IS 3025 (Part 21): 2014
29	Drinking Water	Turbidity	IS 3025 (Part -10):
30	Surface water	Arsenic	APHA 3114 C: 2017
31	Surface water	Cadmium	APHA 3113 B: 2017
32	Surface Water	Copper	IS 3025 (Part 42): 2014
33	Surface water	Copper	APHA 3111 A,B: 2017
34	Surface water	Iron	APHA 3111 A,B: 2017
35	Surface water	Iron	IS 3025 (Part 53):
36	Surface water	Lead	APHA 3113 B: 2017
37	Surface water	Zinc	IS 3025 (Part 49): 2014
38	Surface Water	Chloride	IS 3025 (Part 32): 2014
39	Surface Water	Color	APHA 2120 C: 2017
40	Surface Water	Flouride	APHA 4500 F-D: 2017
41	Surface Water	Nitrate	APHA 4500 NO ₃ B: 2017
42	Surface Water	pH	APHA 4500-H+B: 2017

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43	Surface Water	pH	S 3025 (Part 11): 2012
44	Surface Water	Sulphate	APHA 4500 SO4 E: 2017
45	Surface Water	Total Dissolved Solids	IS 3025 (Part -16):
46	Surface Water	Total Hardness (CaCO3)	IS 3025 (Part 21): 2014
47	Waste Water (Effluent / Sewage)	Ammonical Nitrogen as N	APHA 4500 NH3 B,F: 2017
S.No	Materials or Products tested	Parameter	Test Method Specification
48	Waste Water (Effluent / Sewage)	Arsenic	APHA 3114 C: 2017
49	Waste Water (Effluent / Sewage)	Biological Oxygen Demand (BOD 3 days)	IS 3025 (Part 44): 2014
50	Waste Water (Effluent / Sewage)	Cadmium	APHA 3113 B : 2017
51	Waste Water (Effluent / Sewage)	Chemical Oxygen demand (COD)	APHA 5220 B, C: 2017
52	Waste Water (Effluent / Sewage)	Colour	APHA 2120 C : 2017
53	Waste Water (Effluent / Sewage)	Copper	IS 3025 (Part 42): 2014
54	Waste Water (Effluent / Sewage)	Copper	APHA 3111, A, B : 2017
55	Waste Water (Effluent / Sewage)	Dissolved Phosphate as P	APHA 4500-P C : 2017
56	Waste Water (Effluent / Sewage)	Fluoride	APHA 4500-F- D: 2017
57	Waste Water (Effluent / Sewage)	Hexavalent Chromium	APHA 3500-B: 2017
58	Waste Water (Effluent / Sewage)	Iron	IS 3025 (Part 53): 2014
59	Waste Water (Effluent / Sewage)	Iron	APHA 3111 A, B : 2017
60	Waste Water (Effluent / Sewage)	Lead	APHA, 3113 A, B: 2017
61	Waste Water (Effluent / Sewage)	Manganese	APHA 3111 A, B: 2017
62	Waste Water (Effluent / Sewage)	Nickel	IS 3025 (Part 54): 2014
63	Waste Water (Effluent / Sewage)	Nickel	APHA 3113 A, B : 2017
64	Waste Water (Effluent / Sewage)	Nitrate Nitrogen	APHA 4500 NO3 B: 2017
65	Waste Water (Effluent / Sewage)	Oil & Grease	IS 3025 (Part 39): 2014
66	Waste Water (Effluent / Sewage)	pH value	IS 3025 (Part 11 :1983): 2012
67	Waste Water (Effluent / Sewage)	pH value	APHA 4500 - H+ A, B : 2017
68	Waste Water (Effluent / Sewage)	Sulphide	APHA, 4500 - S 2- D, : 2017
69	Waste Water (Effluent / Sewage)	Total Chromium	IS 3025 (Part 52:2003): 2014

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70	Waste Water (Effluent / Sewage)	Total Kjeldahl Nitrogen	APHA 4500 N org B : 2017
71	Waste Water (Effluent / Sewage)	Total Suspended Solids	IS 3025 (Part 17-1984):
72	Waste Water (Effluent / Sewage)	Zinc	IS 3025 (Part 49): 2014
73	Waste Water (Effluent/Sewage)	Ammonical Nitrogen as N	IS 3025 (Part 34): 2014
74	Waste Water (Effluents/ Sewage)	Temperature	IS 3025 (Part-9): 2012

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Picture 1 Plantation site N External OB Dump, Bharatpur OCP



Picture 2: Continuous Ambient Air Monitoring Station

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AIR QUALITY DATA

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6 ENVIRONMENTAL PARAMETER ANALYSIS

TABLE NO 7 FOR AIR QUALITY DATA

Table: 7.1

Area: Jagannath

Project: Jagannath OCP

Monitoring Station: Near MDTP

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NO _x
07-Apr-21	Strike	Strike	Strike	Strike	Strike
21-Apr-21	383	229	79	19.69	36.54
05-May-21	308	181	46	30.76	52.36
19-May-21	268	144	48	31.11	50.75
03-Jun-21	288	169	62	17.83	40.99
17-Jun-21	314	189	57	15.95	23.34
06-Jul-21	293	177	58	18.47	30.78
21-Jul-21	229	135	44	11.31	18.32
05-Aug-21	147	85	33	12.97	20.8
19-Aug-21	174	108	45	13.11	24.43
07-Sep-21	287	153	54	11.85	21.97
21-Sep-21	262	142	46	14.11	27.91
07-Oct-21	272	191	67	15.16	23.49
21-Oct-21	328	213	74	10.24	28.48
09-Nov-21	346	224	71	19.08	24.35
23-Nov-21	369	219	66	12.09	24.5
07-Dec-21	296	240	90	23.04	38.3
21-Dec-21	189	95	65	17.89	35.34
05-Jan-22	250	146	53	14.99	28.51
19-Jan-22	200	126	45	15.25	38.47
07-Feb-22	177	155	52	15.1	23.82
21-Feb-22	182	132	45	10.6	28.73
07-Mar-22	205	136	54	15.3	28.65
21-Mar-22	179	94	30	15.62	25.36
Brief Statistics	SPM	PM10	PM2.5	SO2	NO_x
Maximum	383	240	90	31.11	52.36
Minimum	147	85	30	10	18
Average	258.52	160.13	55.83	16.59	30.27
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

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Table: 7.2
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: Near NBVL Station
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-21	Strike				
21-Apr-21	268	165	63	18.41	35.72
05-May-21	276	159	42	24.21	29.67
19-May-21	221	117	40	25.71	37.78
03-Jun-21	240	147	58	19.61	30.01
17-Jun-21	263	169	55	20.84	40.92
06-Jul-21	239	143	56	14.19	28.79
21-Jul-21	195	104	47	10.36	21.2
05-Aug-21	151	78	30	11.03	24.18
19-Aug-21	156	94	38	8.83	21.3
07-Sep-21	257	136	49	15.89	22.7
21-Sep-21	228	149	49	14.83	25.32
07-Oct-21	284	173	63	19.1	35.17
21-Oct-21	297	189	69	10.44	29.63
09-Nov-21	302	196	67	17.18	22.76
23-Nov-21	343	212	70	11.53	24.32
07-Dec-21	205	165	98	18.92	31.06
21-Dec-21	150	97	56	17.11	34.86
05-Jan-22	220	150	55	18.11	33.1
19-Jan-22	210	145	50	18.48	25.27
07-Feb-22	166	132	46	19.94	35.66
21-Feb-22	176	123	42	11.16	30.84
07-Mar-22	189	123	49	17.62	31.8
21-Mar-22	165	96	36	11.23	19.63
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	343	212	98	25.71	40.92
Minimum	150	78	30	9	20
Average	226.13	141.83	53.39	16.29	29.20
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

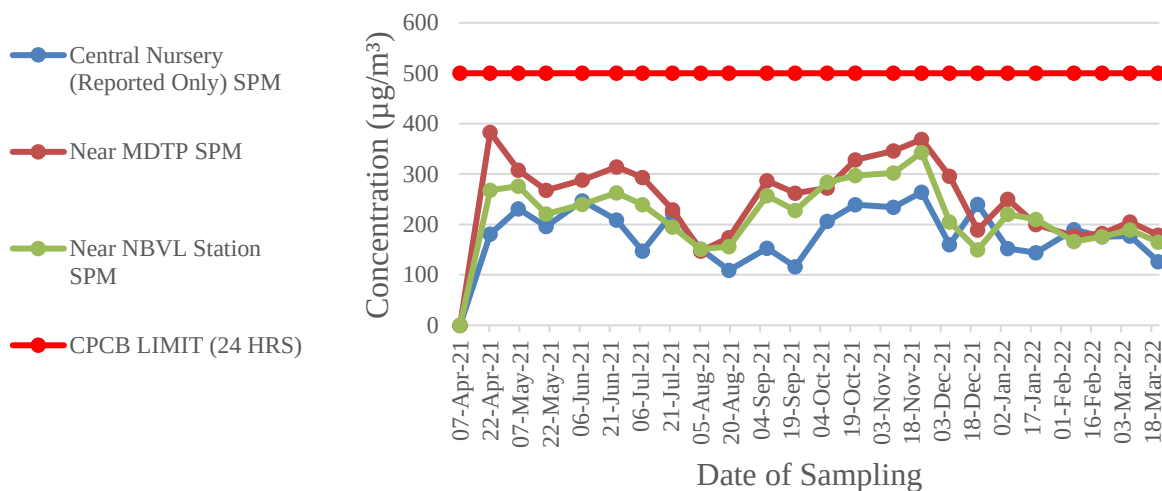
Table: 7.3
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: Central Nursery (Reported Only)
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-21	Strike				
22-Apr-21	181	105	42	16.52	32.49
06-May-21	231	134	40	30.49	45.75
20-May-21	196	123	32	21.74	38.79
07-Jun-21	247	168	55	14.01	32.59
24-Jun-21	209	137	39	25.07	40.43
07-Jul-21	147	98	32	11.8	28.61
22-Jul-21	222	129	44	17.16	28.6
05-Aug-21	151	98	28	11.98	20.83
19-Aug-21	109	67	34	12.32	34.48
07-Sep-21	153	98	33	18.39	21.79
21-Sep-21	116	67	34	9.21	23.61
07-Oct-21	206	128	39	19.17	25.35
21-Oct-21	239	153	46	9.74	28.13
09-Nov-21	234	138	45	17.95	23.79
23-Nov-21	264	157	50	12.76	21.49
07-Dec-21	160	72	40	16.96	44.68
21-Dec-21	240	173	85	13.67	26.84
05-Jan-22	152	88	41	16.34	32.59
19-Jan-22	144	79	36	15.8	29.17
07-Feb-22	190	133	56	12.62	35.14
21-Feb-22	176	115	50	10.54	28.37
07-Mar-22	177	100	41	18.07	22.13
21-Mar-22	126	95	36	17.26	25.36
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	264	173	85	30.49	45.75
Minimum	109	67	28	9	21
Average	185.65	115.43	42.52	16.07	30.04
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

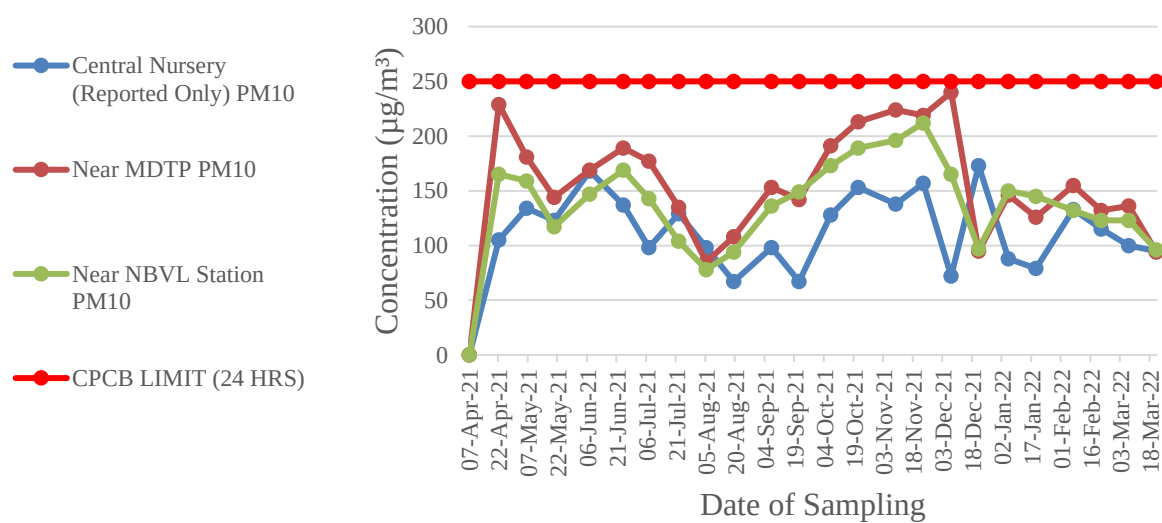
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Graph Showing SPM for Jagannath OCP



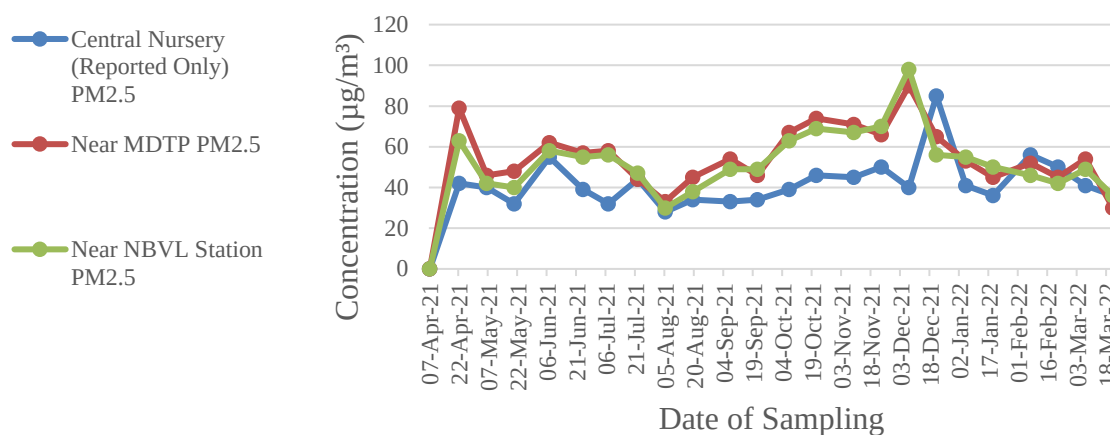
Graph Showing PM10 for Jagannath OCP



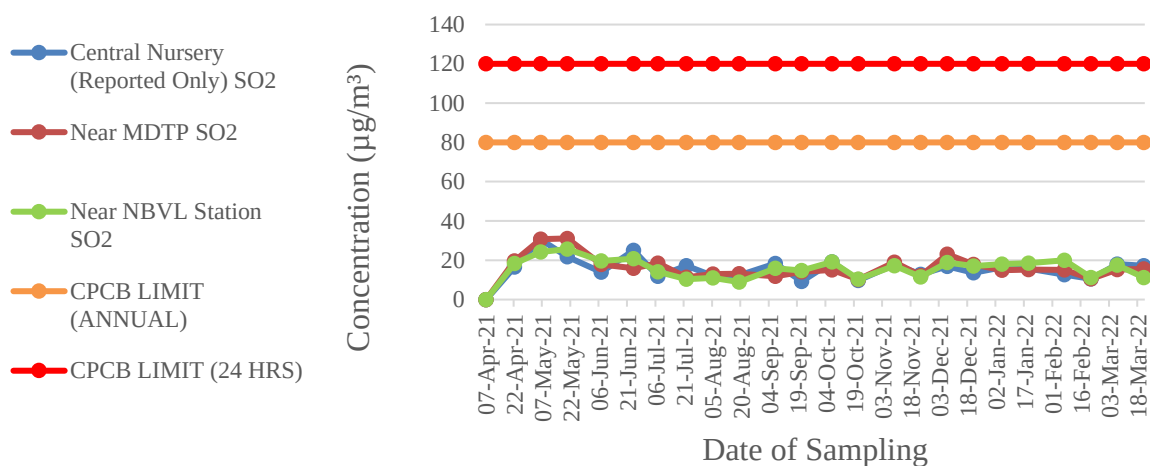
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Graph Showing PM_{2.5} for Jagannath OCP



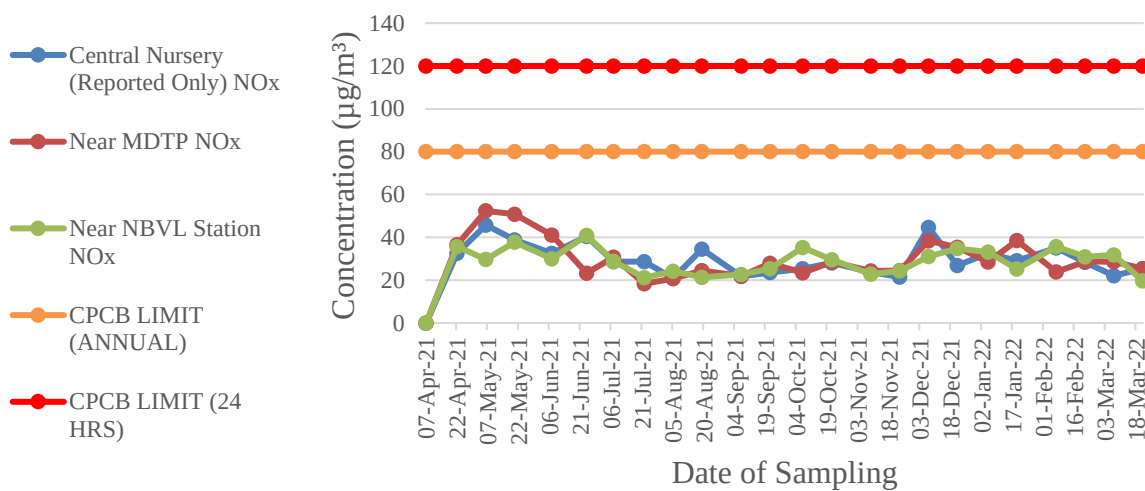
Graph Showing SO₂ for Jagannath OCP



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Graph Showing NO_x for Jagannath OCP



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Table: 7.4
Area: Jagannath
Project: Ananta OCP
Monitoring Station: Central Nursery
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-21	Strike				
22-Apr-21	181	105	42	16.52	32.49
06-May-21	213	134	40	30.49	45.75
20-May-21	196	123	32	21.74	38.79
07-Jun-21	247	168	55	14.01	32.59
24-Jun-21	209	137	39	25.07	40.43
07-Jul-21	147	98	32	11.8	28.61
22-Jul-21	222	129	44	17.16	28.6
05-Aug-21	151	98	28	11.98	20.83
19-Aug-21	109	67	34	12.32	34.48
07-Sep-21	153	98	33	18.39	21.79
21-Sep-21	116	67	34	9.21	23.61
07-Oct-21	206	128	39	19.17	25.35
21-Oct-21	239	153	46	9.74	28.13
09-Nov-21	234	138	45	17.95	23.79
23-Nov-21	264	157	50	12.76	21.49
07-Dec-21	160	72	40	16.96	44.68
21-Dec-21	240	173	85	13.67	26.84
05-Jan-22	152	88	41	16.34	32.59
19-Jan-22	144	79	36	15.8	29.17
07-Feb-22	190	133	56	12.62	35.14
21-Feb-22	176	115	50	10.54	28.37
07-Mar-22	177	100	41	18.07	22.13
21-Mar-22	126	95	36	17.26	25.36
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	264	173	85	30.49	45.75
Minimum	109	67	28	9	21
Average	184.87	115.43	42.52	16.07	30.04
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

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Table: 7.5
Area: Jagannath
Project: Ananta OCP
Monitoring Station: Near NBVL Station (Reported only)
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-21	Strike	Strike	Strike	Strike	Strike
21-Apr-21	268	165	63	18.41	35.72
05-May-21	276	159	42	24.21	29.67
19-May-21	221	117	40	25.71	37.78
03-Jun-21	240	147	58	19.61	30.01
17-Jun-21	263	169	55	20.84	40.92
06-Jul-21	239	143	56	14.19	28.79
21-Jul-21	195	104	47	10.36	21.2
05-Aug-21	151	78	30	11.03	24.18
19-Aug-21	156	94	38	8.83	21.3
07-Sep-21	257	136	49	15.89	22.7
21-Sep-21	228	149	49	14.83	25.32
07-Oct-21	284	173	63	19.1	35.17
21-Oct-21	297	189	69	10.44	29.63
09-Nov-21	302	196	67	17.18	22.76
23-Nov-21	343	212	70	11.53	24.32
07-Dec-21	205	165	98	18.92	31.06
21-Dec-21	150	97	56	17.11	34.86
05-Jan-22	220	150	55	18.11	33.1
19-Jan-22	210	145	50	18.48	25.27
07-Feb-22	166	132	46	19.94	35.66
21-Feb-22	176	123	42	11.16	30.84
07-Mar-22	189	123	49	17.62	31.8
21-Mar-22	165	96	36	11.23	19.63
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	343	212	98	25.71	40.92
Minimum	150	78	30	9	20
Average	226.13	141.83	53.39	16.29	29.20
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

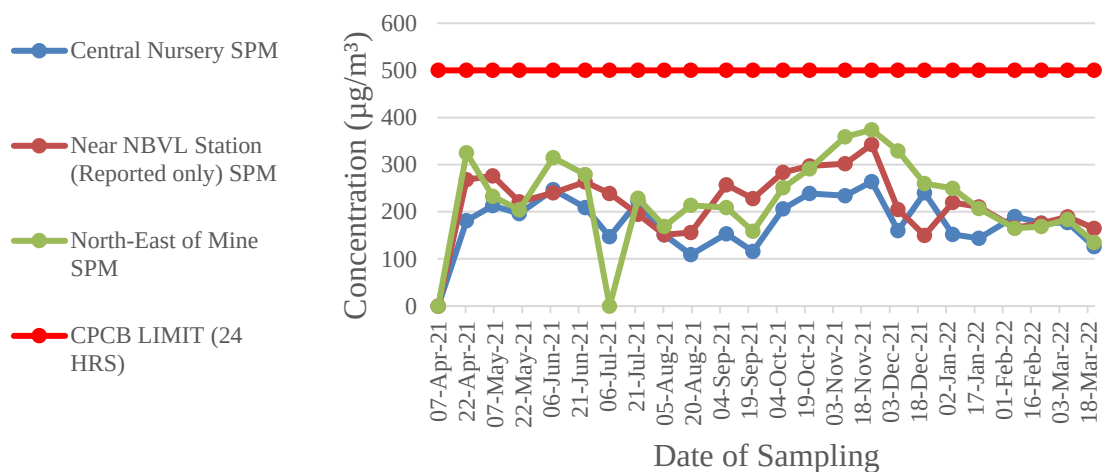
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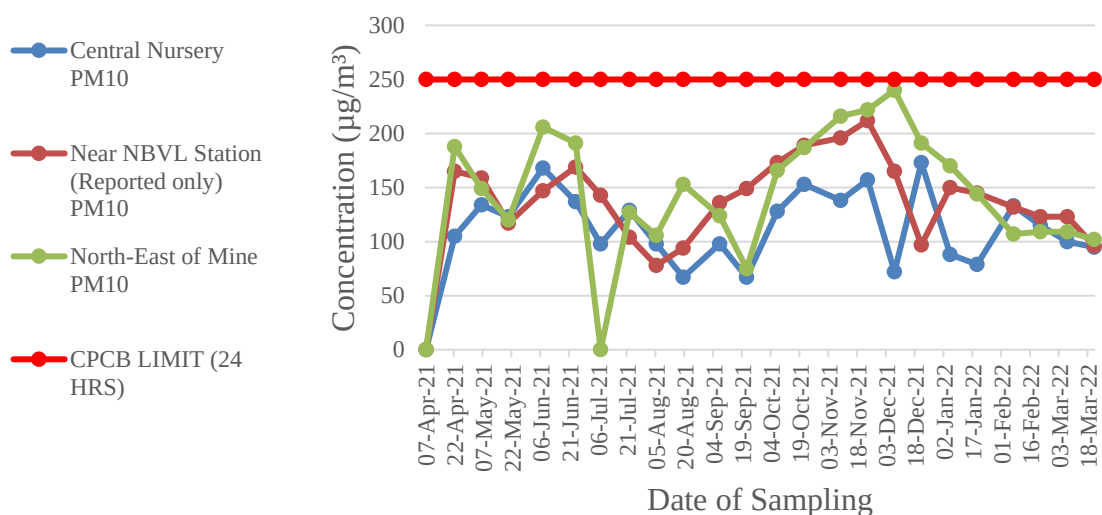
Table: 7.6
Area: Jagannath
Project: Ananta OCP
Monitoring Station: North-East of Mine
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-21	Strike				
22-Apr-21	325	188	57	18.27	35.16
06-May-21	233	149	44	8.82	17.92
20-May-21	204	120	35	18.42	31.02
02-Jun-21	315	206	51	25.99	45.94
24-Jun-21	279	191	55	17.41	31.49
07-Jul-21	Machine break down				
22-Jul-21	229	127	47	8.55	18.52
05-Aug-21	169	106	36	9.41	16.44
19-Aug-21	214	153	39	11.36	20.47
07-Sep-21	209	124	53	13.47	18.9
21-Sep-21	159	75	45	14.85	28.24
07-Oct-21	251	166	64	11.46	27.01
21-Oct-21	291	187	67	8.5	34.59
09-Nov-21	359	216	66	12.54	21.68
23-Nov-21	374	222	69	12.13	23.88
07-Dec-21	329	240	50	20.67	34.33
21-Dec-21	260	191	69	14.08	28.89
05-Jan-22	250	170	56	15.64	27.76
19-Jan-22	207	144	46	14.64	17.61
07-Feb-22	165	107	40	19.28	25.71
21-Feb-22	169	109	46	9.98	28.08
07-Mar-22	184	109	44	15.65	31.91
21-Mar-22	135	102	39	15.03	26.39
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	374	240	69	25.99	45.94
Minimum	135	75	35	9	16
Average	241.36	154.64	50.82	14.37	26.91
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Graph Showing SPM for Ananta OCP



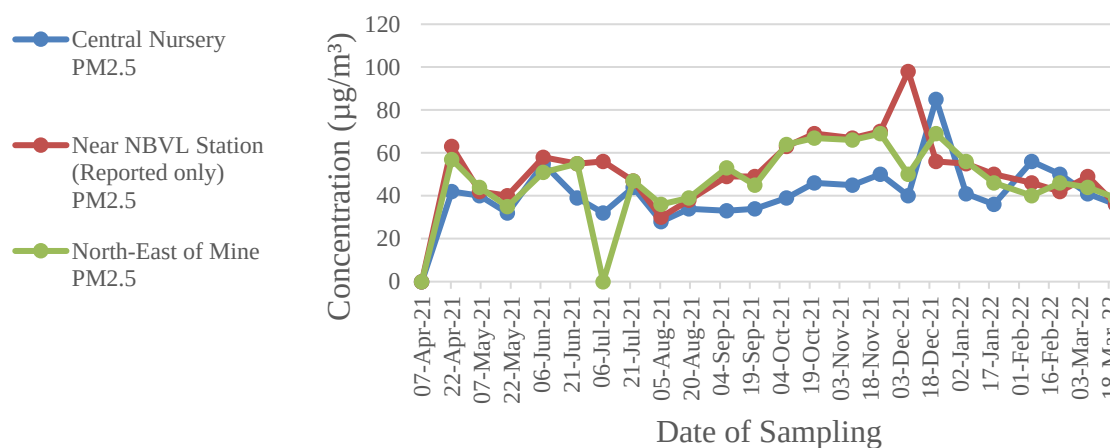
Graph Showing PM₁₀ for Ananta OCP



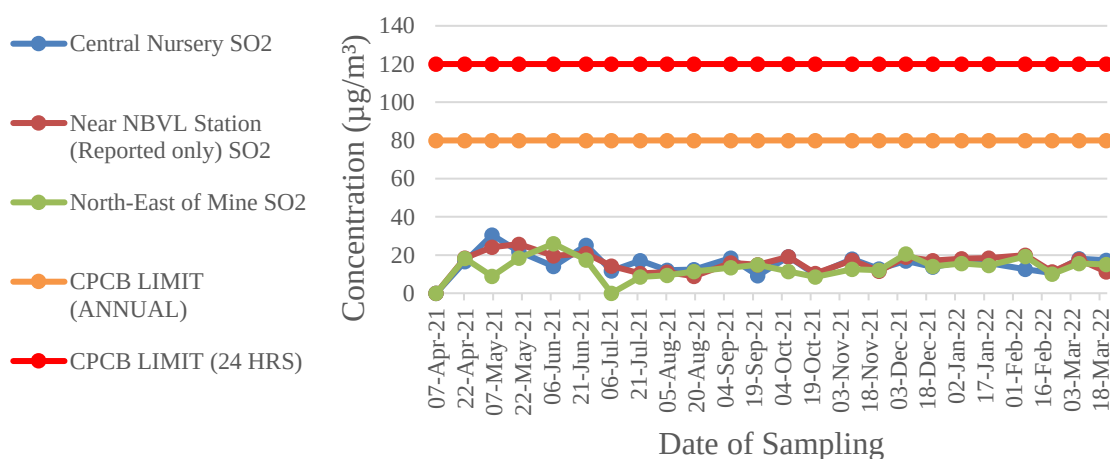
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Graph Showing PM_{2.5} for Ananta OCP



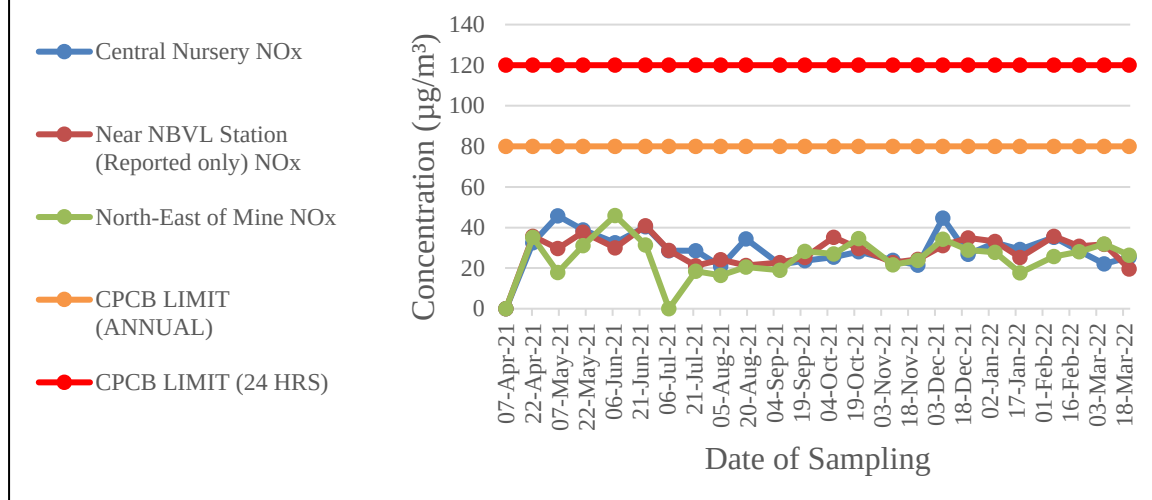
Graph Showing SO₂ for Ananta OCP



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Graph Showing NO_x for Ananta OCP



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Table: 7.7
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Near ETP/Workshop

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
12-Apr-21	486	264	63	20.57	41.86
27-Apr-21	416	198	58	20.37	39.62
11-May-21	138	68	32	18.37	31.09
25-May-21	114	59	25	14.7	28.53
08-Jun-21	226	119	51	18.47	33.73
23-Jun-21	212	137	55	14.38	31.8
08-Jul-21	173	99	39	15.26	20.72
26-Jul-21	150	84	43	14.58	24.31
09-Aug-21	170	91	43	11.53	21.68
23-Aug-21	166	105	39	8.84	22.05
09-Sep-21	161	96	31	18.09	25.05
23-Sep-21	196	129	47	14.73	22.18
11-Oct-21	229	143	43	18.1	26.69
25-Oct-21	267	169	59	15.24	27.49
10-Nov-21	289	167	66	17.54	27.3
24-Nov-21	319	194	62	11.78	21.31
08-Dec-21	204	155	46	16.97	43.9
22-Dec-21	186	136	93	16.38	27.06
06-Jan-22	210	127	49	18.2	26.94
20-Jan-22	226	144	55	18.39	30.62
08-Feb-22	159	105	49	17.19	27.43
22-Feb-22	193	132	55	15.87	25.25
08-Mar-22	189	119	56	15.74	36.42
22-Mar-22	175	110	44	14.25	24.23
Brief Statistics	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	486	264	93	20.57	43.9
Minimum	114	59	25	9	21
Average	218.92	131.25	50.13	16.06	28.64
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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Table: 7.8
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Near MGR-RLS of Bharatpur
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
12-Apr-21	490	254	73	20.79	40.75
27-Apr-21	429	194	57	20.61	39.84
11-May-21	172	109	38	18.25	30.82
25-May-21	136	88	34	19.07	33.38
08-Jun-21	222	115	44	16.75	24.16
23-Jun-21	213	164	53	19.61	24.76
08-Jul-21	213	122	54	10.41	24.1
26-Jul-21	177	109	43	9.23	15.98
09-Aug-21	192	110	40	11.69	19.44
23-Aug-21	183	102	37	10.7	17.81
09-Sep-21	217	120	42	19.82	24.5
23-Sep-21	223	142	41	16.9	32
11-Oct-21	242	161	54	17.29	27.06
25-Oct-21	288	194	63	17	25.35
10-Nov-21	304	191	56	18.42	17.96
24-Nov-21	337	209	65	12.28	20.71
08-Dec-21	200	166	30	19.83	37.91
22-Dec-21	186	85	50	14.31	29.50
06-Jan-22	147	86	44	15.84	21.54
20-Jan-22	133	77	36	20.31	39.28
08-Feb-22	200	144	59	14.06	31.87
22-Feb-22	190	140	56	13.3	24.75
08-Mar-22	196	122	59	16.36	25.81
22-Mar-22	149	95	36	11.2	18.39
Brief Statistics	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	490	254	73	20.79	40.75
Minimum	133	77	30	9	16
Average	226.63	137.46	48.50	16.00	26.99
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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Table: 7.9
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Near Regional Store

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
12-Apr-21	515	276	77	22.64	43.27
27-Apr-21	455	285	66	23.15	41.97
11-May-21	301	170	44	35.63	55.45
25-May-21	259	132	36	16.76	32.07
08-Jun-21	260	147	49	22.25	31.9
23-Jun-21	229	139	45	14.31	27.01
08-Jul-21	182	123	41	11.74	23.48
26-Jul-21	149	90	38	10.84	16.78
09-Aug-21	179	112	41	10.21	22.4
23-Aug-21	193	119	43	9.52	17.17
09-Sep-21	197	113	40	16.24	20.07
23-Sep-21	209	124	43	15.95	21.04
11-Oct-21	259	162	59	17.51	29.53
25-Oct-21	308	201	64	13.76	26.29
10-Nov-21	319	176	64	12.95	28.52
24-Nov-21	347	203	68	11.49	16.52
08-Dec-21	192	156	35	25.24	28.42
22-Dec-21	200	153	63	18.16	20.55
06-Jan-22	165	82	36	14.06	23.92
20-Jan-22	150	70	33	24.61	32.37
08-Feb-22	187	123	50	14.95	26.03
22-Feb-22	178	128	52	10.24	18.74
08-Mar-22	174	111	49	18	29.88
22-Mar-22	188	112	45	10.25	21.23
Brief Statistics	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	515	285	77	35.63	55.45
Minimum	149	70	33	10	17
Average	241.46	146.13	49.21	16.69	27.28
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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Table: 7.10
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: North-West Point of the Mine

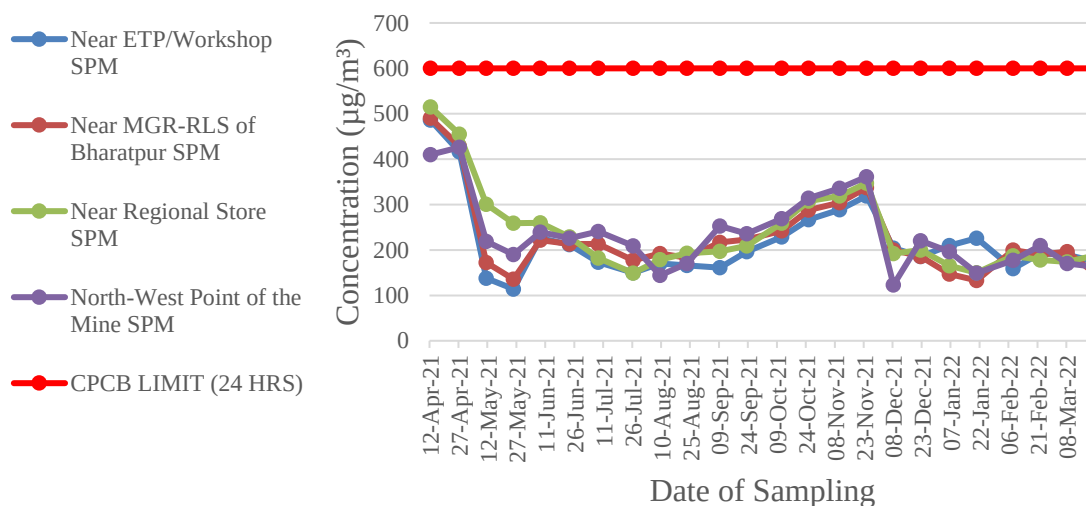
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
12-Apr-21	410	233	52	21.46	39.28
27-Apr-21	426	281	64	22.58	40.51
11-May-21	219	138	40	31.76	48.66
25-May-21	190	122	32	15.57	41.7
08-Jun-21	239	124	47	27.14	50.07
23-Jun-21	226	153	51	25.32	53.77
08-Jul-21	241	139	58	17.05	28.42
26-Jul-21	209	128	48	11.1	20.96
09-Aug-21	144	83	45	15.21	19.59
23-Aug-21	170	89	34	11.15	22.41
09-Sep-21	253	145	47	16.73	21.55
23-Sep-21	236	154	49	14.73	23.68
11-Oct-21	269	175	63	15.96	29.06
25-Oct-21	314	204	66	15.33	25.02
10-Nov-21	336	184	63	12.39	21.21
24-Nov-21	361	197	67	10.32	17.85
08-Dec-21	123	89	32	26.56	43.6
22-Dec-21	220	176	60	13.63	24.8
06-Jan-22	196	90	36	16.15	21.19
20-Jan-22	149	100	44	17.53	23.33
08-Feb-22	177	133	54	17.99	29.95
22-Feb-22	210	144	58	17.24	25.05
08-Mar-22	170	108	48	14.74	28.28
22-Mar-22	163	100	40	12.03	19.36
Brief Statistics	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	426	281	67	31.76	53.77
Minimum	123	83	32	10	18
Average	235.46	145.38	49.92	17.49	29.97
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

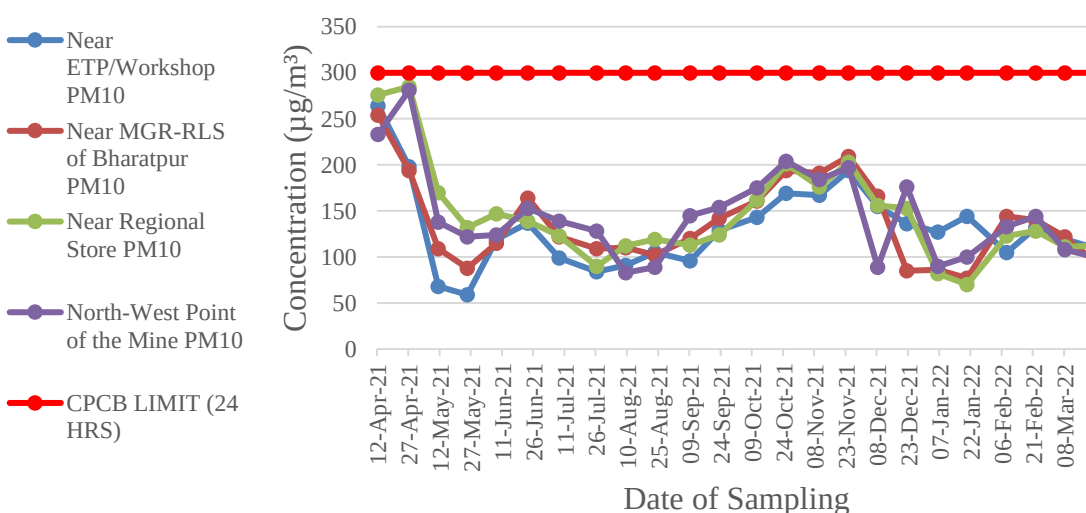
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Graph Showing SPM for Bharatpur OCP



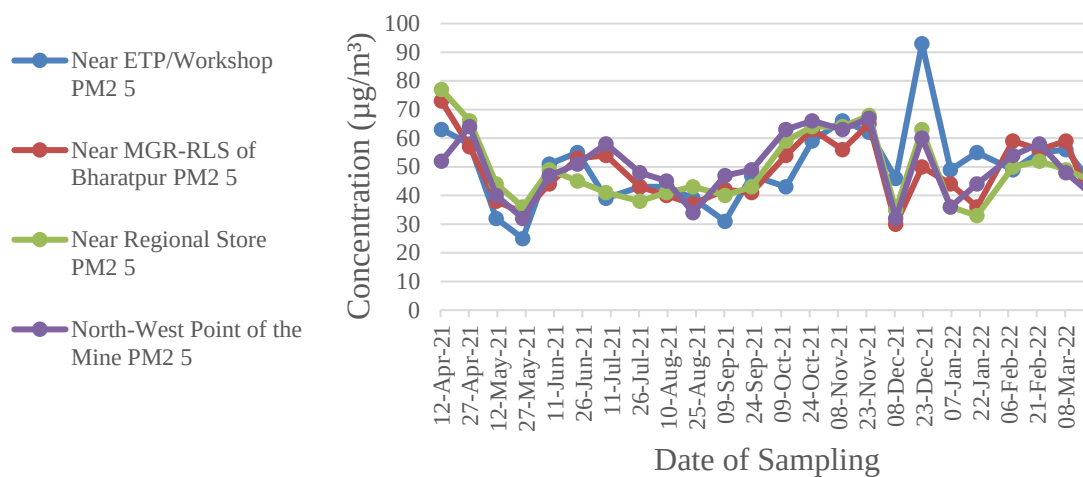
Graph Showing PM₁₀ for Bharatpur OCP



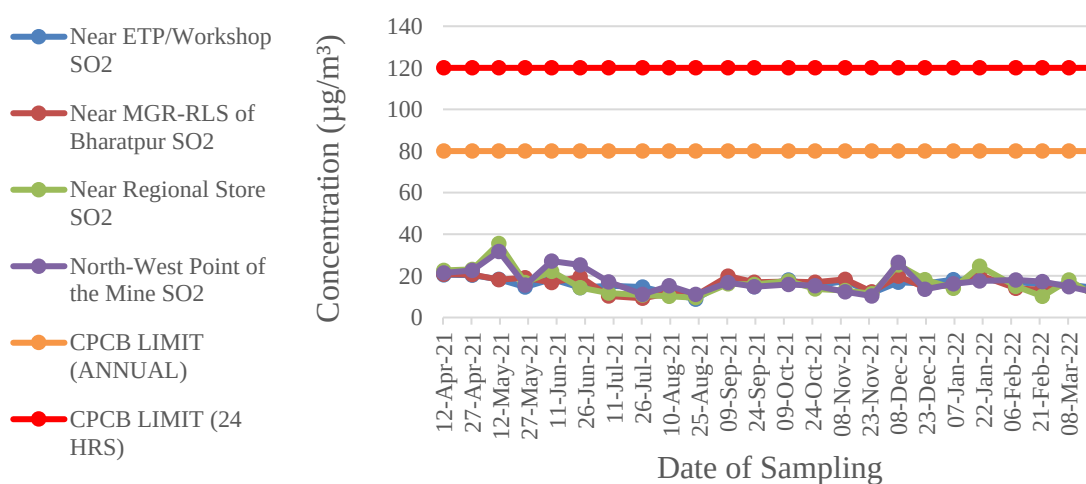
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Graph Showing PM_{2.5} for Bharatpur OCP



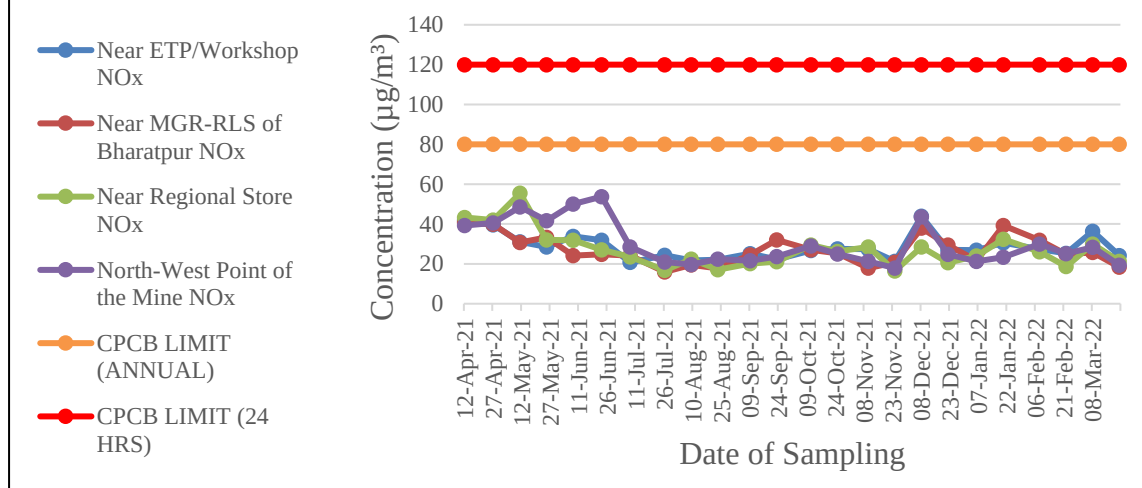
Graph Showing SO₂ for Bharatpur OCP



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Graph Showing NO_x for Bharatpur OCP



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Table: 7.11
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: IWSS

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
06-Apr-21	372	206	62	18.74	35.16
22-Apr-21	292	155	55	17.65	35.47
06-May-21	218	133	44	19.07	42.93
20-May-21	184	105	38	16.07	31.8
07-Jun-21	230	123	48	20.65	34.76
22-Jun-21	185	108	40	18.91	21.45
07-Jul-21	291	177	49	12.87	21.45
22-Jul-21	246	130	46	13.34	23.2
04-Aug-21	137	73	33	11.45	18.18
18-Aug-21	171	99	44	8.79	14.62
06-Sep-21	233	145	45	17.16	24.96
20-Sep-21	141	77	45	15.1	24
06-Oct-21	236	151	46	15.24	26.34
20-Oct-21	291	177	56	16.21	21.58
08-Nov-21	367	226	77	14.94	24.5
22-Nov-21	373	208	69	10.27	14.44
06-Dec-21	126	53	26	24.96	23.15
20-Dec-21	237	156	69	10.9	28.53
04-Jan-22	148	78	36	16.37	27.75
18-Jan-22	133	70	30	18.44	34.31
03-Feb-22	198	133	55	13.69	31.27
17-Feb-22	181	126	48	16.62	27.32
03-Mar-22	165	96	45	18.91	24.4
16-Mar-22	210	120	44	13.2	23.69
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	373	226	77	24.96	42.93
Minimum	126	53	26	9	14
Average	223.54	130.21	47.92	15.81	26.47
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

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Table: 7.12
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Near Lingaraj to Dera Road

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NOX
06-Apr-21	358	188	57	19.25	37.68
22-Apr-21	354	202	63	17.18	34.63
06-May-21	274	147	48	13.96	34.5
20-May-21	241	128	40	20.42	38.04
07-Jun-21	282	158	52	22.71	27.1
22-Jun-21	223	141	42	16.44	21.74
07-Jul-21	247	133	39	12.42	16.56
21-Jul-21	224	123	44	9.26	16.98
04-Aug-21	114	68	34	12.21	22.16
18-Aug-21	191	113	31	11.45	18.32
06-Sep-21	216	123	47	11.01	29.02
20-Sep-21	113	69	39	19.07	20.75
06-Oct-21	284	176	68	12.59	23.85
20-Oct-21	339	214	65	15.97	26.94
08-Nov-21	337	205	68	14.88	25.8
22-Nov-21	366	219	72	9.87	21.77
06-Dec-21	120	80	54	17.11	43.34
20-Dec-21	275	133	52	10.31	28.06
04-Jan-22	186	123	53	19.41	32.59
18-Jan-22	210	164	60	17.68	29.3
03-Feb-22	180	123	45	18.14	35.25
17-Feb-22	166	110	44	17.41	27.98
03-Mar-22	185	122	40	18.13	27.68
16-Mar-22	186	133	49	14.25	26.32
Brief Statistics	SPM	PM10	PM2.5	SO₂	NOX
Maximum	366	219	72	22.71	43.34
Minimum	113	68	31	9	17
Average	236.29	141.46	50.25	15.46	27.77
Standard (24 Hrs)	500	250		120	120
Standard (Annual)		100		80	80

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Table: 7.13
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Near OB Dump No. 10 (Near North Side of Mine)

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NOX
06-Apr-21	329	178	69	20.63	38.89
22-Apr-21	384	172	64	19.41	38.92
06-May-21	296	173	53	27.8	87.26
20-May-21	231	145	48	25.71	23.31
07-Jun-21	206	109	35	16.22	35.36
22-Jun-21	219	152	39	14.71	19.25
07-Jul-21	213	137	52	15.41	23.97
21-Jul-21	228	141	54	12.56	25.59
04-Aug-21	149	75	37	7.28	15.93
18-Aug-21	194	116	42	13.53	21.43
06-Sep-21	222	151	43	15.04	24.79
20-Sep-21	231	145	44	9.29	27.24
06-Oct-21	249	174	62	13.6	22.13
20-Oct-21	277	195	59	13.47	25.74
08-Nov-21	397	241	75	13.08	26.4
22-Nov-21	367	233	70	14.04	18.92
06-Dec-21	272	240	66	23.26	28.58
20-Dec-21	220	83	40	15.85	35.89
04-Jan-22	310	232	62	15.87	29.87
18-Jan-22	244	140	50	18.04	29.22
03-Feb-22	140	86	44	17.89	19.51
17-Feb-22	148	100	40	17.05	22.12
03-Mar-22	89	63	20	21.63	32
16-Mar-22	190	100	40	15.23	24.3
Brief Statistics	SPM	PM10	PM2.5	SO₂	NOX
Maximum	397	241	75	27.8	87.26
Minimum	89	63	20	7	16
Average	241.88	149.21	50.33	16.53	29.03
Standard (24 Hrs)	500	250		120	120
Standard (Annual)		100		80	80

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Table: 7.14
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Near OB Dump no. 5 (South Side of the Mine)

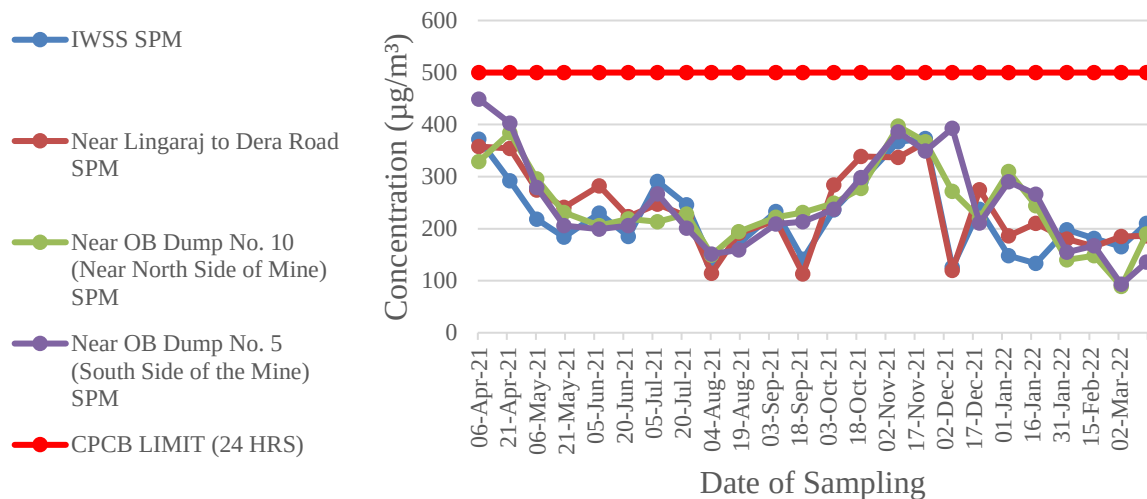
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NOX
06-Apr-21	449	218	64	19.47	36.51
23-Apr-21	403	236	76	19.87	37.45
06-May-21	279	148	42	22.21	50.56
20-May-21	206	123	36	21.67	33.38
07-Jun-21	199	133	41	18.44	33.37
22-Jun-21	206	136	46	19.57	33.88
07-Jul-21	267	153	52	13.52	15.6
21-Jul-21	201	113	57	13.19	22.98
04-Aug-21	151	89	39	10.37	19.24
18-Aug-21	159	96	43	9.79	21.71
06-Sep-21	209	129	40	8.51	25.24
20-Sep-21	213	129	46	16.88	25.75
06-Oct-21	237	162	57	16.97	21.24
20-Oct-21	298	206	65	10.95	22.27
08-Nov-21	386	235	69	12.6	31
22-Nov-21	349	217	63	12.2	22.51
06-Dec-21	393	350	60	20.05	33.25
20-Dec-21	211	84	47	13.06	34.84
04-Jan-22	290	210	60	14.92	19.66
18-Jan-22	266	155	52	14.63	33.44
03-Feb-22	155	80	41	20.7	21.87
17-Feb-22	167	107	44	13.41	24.95
03-Mar-22	93	60	16	19.9	25.95
16-Mar-22	136	115	45	10.35	18.36
Brief Statistics	SPM	PM10	PM2.5	SO₂	NOX
Maximum	449	350	76	22.21	50.56
Minimum	93	60	16	9	16
Average	246.79	153.50	50.04	15.55	27.71
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

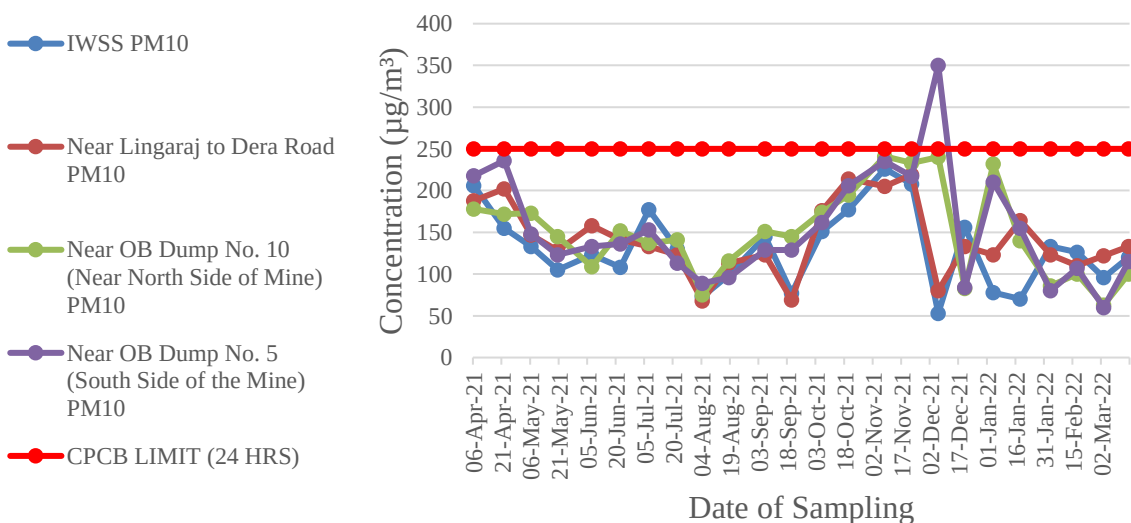
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Graph Showing SPM for Lingaraj OCP



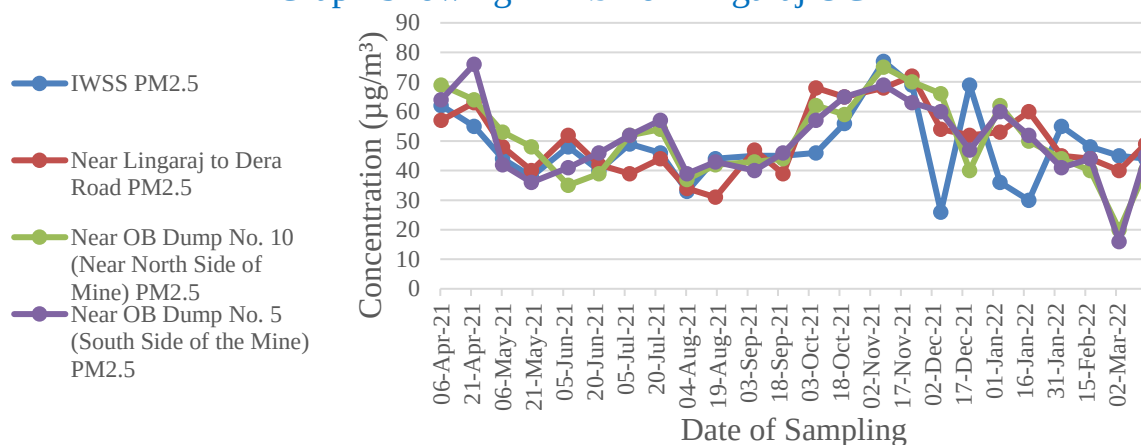
Graph Showing PM₁₀ for Lingaraj OCP



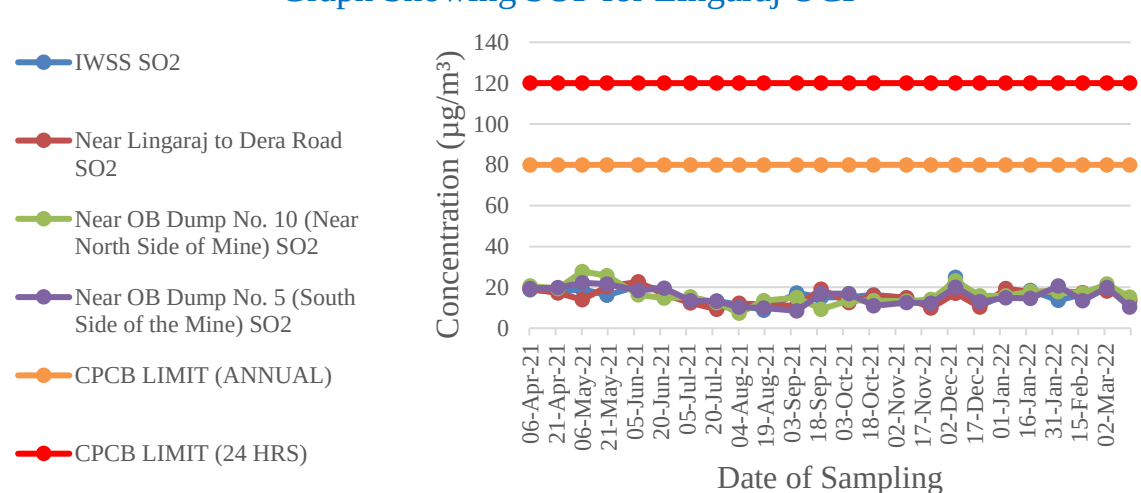
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Graph Showing PM_{2.5} for Lingaraj OCP



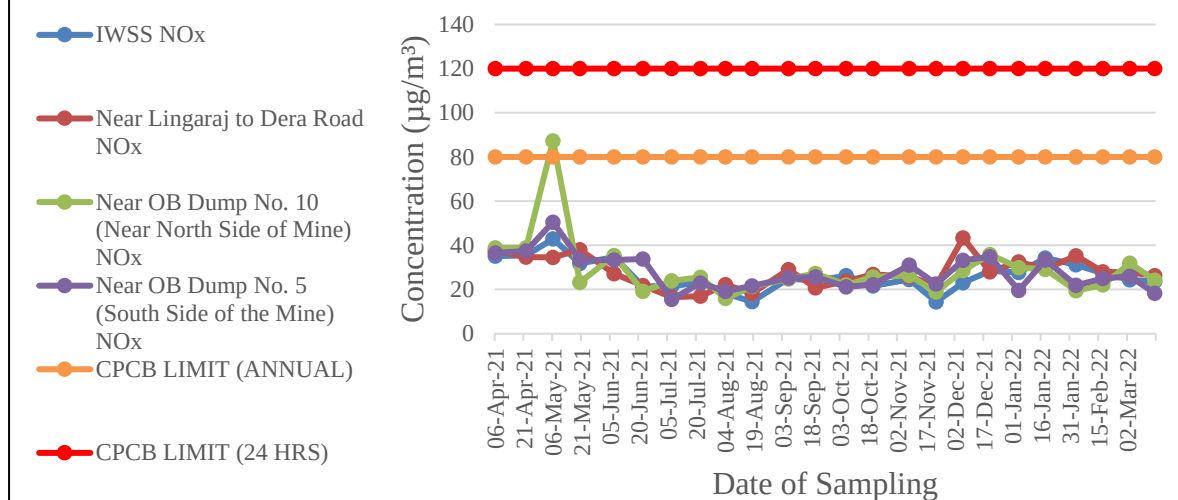
Graph Showing SO₂ for Lingaraj OCP



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Graph Showing NO_x for Lingaraj OCP



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Table: 7.15
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Near External OB Dump Jamania
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
03-Apr-21	348	190	58	18.69	37.14
21-Apr-21	289	161	54	14.18	27.23
05-May-21	335	192	49	24.00	56.79
19-May-21	247	139	38	15.94	32.66
03-Jun-21	227	144	58	18.10	49.75
17-Jun-21	266	180	54	20.76	24.84
05-Jul-21	191	111	45	11.43	29.63
20-Jul-21	227	149	56	9.50	15.83
03-Aug-21	147	76	31	10.57	22.87
17-Aug-21	211	115	43	19.90	30.34
01-Sep-21	216	129	34	14.14	26.64
15-Sep-21	220	128	40	15.39	31.39
01-Oct-21	237	148	41	18.02	19.57
16-Oct-21	288	175	52	12.66	25.53
03-Nov-21	331	191	63	15.87	26.03
18-Nov-21	291	164	59	11.14	18.27
01-Dec-21	275	142	48	15.36	33.40
16-Dec-21	270	130	46	15.31	33.38
01-Jan-22	260	165	56	19.32	28.94
15-Jan-22	243	133	50	24.92	32.35
01-Feb-22	222	159	54	15.70	30.03
15-Feb-22	170	115	51	12.35	30.11
01-Mar-22	144	108	37	21.26	24.60
31-Mar-22	160	113	40	11.20	22.39
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	348	192	63	24.92	56.79
Minimum	144	76	31	10	16
Average	242.29	144.04	48.21	16.07	29.57
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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Table: 7.16
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Near Jatra Padia Jarda
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
03-Apr-21	343	177	62	18.07	36.89
22-Apr-21	273	148	55	15.71	30.68
04-May-21	289	161	51	15.42	22.5
18-May-21	198	111	40	25.25	56.83
02-Jun-21	190	107	32	36.14	45.33
16-Jun-21	266	154	43	16.54	26.36
05-Jul-21	170	124	52	11.34	31.51
19-Jul-21	186	105	49	21.68	36.13
02-Aug-21	182	95	40	12.5	24.26
16-Aug-21	208	121	36	25	38.52
01-Sep-21	186	101	30	15.71	21.19
15-Sep-21	201	109	42	15.9	23.58
01-Oct-21	219	141	49	15.97	29.55
16-Oct-21	277	193	58	11.27	27.34
03-Nov-21	273	167	64	18.89	24.9
18-Nov-21	327	188	67	16.96	32.47
03-Dec-21	153	99	56	20.87	25.52
17-Dec-21	251	136	55	18.01	27.37
03-Jan-22	170	120	53	16.91	25.42
17-Jan-22	156	111	44	17.52	26.9
02-Feb-22	210	133	49	20.68	28.55
16-Feb-22	180	124	54	12.61	24.78
02-Mar-22	155	105	56	15.09	24.1
15-Mar-22	174	125	55	15.23	24.32
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	343	193	67	36.14	56.83
Minimum	153	95	30	11	21
Average	218.21	131.46	49.67	17.89	29.79
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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Table: 7.17
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: New Time Office-Near Z-patch
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
05-Apr-21	403	247	68	18.38	35.18
21-Apr-21	365	204	61	14.29	27.56
05-May-21	249	157	48	19.44	25.87
19-May-21	207	129	38	17.38	31.06
03-Jun-21	195	112	49	15.57	27.02
17-Jun-21	241	163	50	20.02	29.29
06-Jul-21	347	202	56	10.11	14.44
20-Jul-21	219	137	48	13.66	17.51
03-Aug-21	209	137	40	9.68	21.24
17-Aug-21	289	116	44	14.65	26.11
02-Sep-21	151	78	40	14.76	27.37
16-Sep-21	116	79	39	16.95	25.52
04-Oct-21	275	186	63	17.1	34.77
19-Oct-21	337	223	68	10.77	26.1
02-Nov-21	321	189	62	19.87	24.03
17-Nov-21	346	206	65	11.07	19.35
03-Dec-21	186	155	54	21.36	31.05
17-Dec-21	297	166	69	10.37	32.62
03-Jan-22	239	156	49	15.52	32
17-Jan-22	220	144	57	17.74	37.45
02-Feb-22	184	133	47	16.2	28.5
16-Feb-22	174	108	51	13.91	28.57
02-Mar-22	186	120	44	16.24	33.91
15-Mar-22	175	110	40	10.3	19.04
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	403	247	69	21.36	37.45
Minimum	116	78	38	10	14
Average	247.13	152.38	52.08	15.22	27.32
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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Table: 7.18
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: North East Side of Project Office
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
05-Apr-21	255	153	53	16.43	31.65
20-Apr-21	319	205	63	18.57	35.24
04-May-21	243	150	45	39.45	47.33
18-May-21	176	98	37	36.69	57.4
02-Jun-21	238	129	44	23.21	50.22
16-Jun-21	234	143	54	24.53	41.29
05-Jul-21	219	128	58	14.96	26.86
19-Jul-21	204	119	47	14.65	36.63
02-Aug-21	168	104	36	9.8	22
16-Aug-21	147	74	33	15.54	27.85
01-Sep-21	145	86	28	13.73	22.64
15-Sep-21	211	133	44	17.64	25.06
05-Oct-21	231	147	55	18.86	31.79
18-Oct-21	266	161	61	10.8	32.43
03-Nov-21	289	177	59	17.51	21.54
18-Nov-21	317	194	54	14.88	34.45
01-Dec-21	318	288	55	17.96	31.49
16-Dec-21	253	168	55	19.18	29.5
01-Jan-22	260	200	50	16.21	28.82
15-Jan-22	242	155	43	22.32	26.01
01-Feb-22	194	123	42	18.69	22.19
15-Feb-22	209	132	59	11.73	27.7
01-Mar-22	169	118	47	19.25	34.25
31-Mar-22	159	108	44	11.05	18.34
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	319	288	63	39.45	57.4
Minimum	145	74	28	10	18
Average	227.75	145.54	48.58	18.49	31.78
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

Table: 7.19
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Old Site Office
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
05-Apr-21	389	211	64	17.62	34.17
21-Apr-21	312	178	53	13.51	26.41
05-May-21	278	159	50	25.7	35.99
19-May-21	216	118	41	18.42	33.44
03-Jun-21	212	100	42	10.3	27.74
17-Jun-21	217	133	46	21.38	17.3
06-Jul-21	221	114	48	9.72	18.69
20-Jul-21	244	137	50	16.89	38.51
04-Aug-21	159	99	33	10.33	24.55
18-Aug-21	137	80	38	12.54	23.19
02-Sep-21	183	118	38	16.14	27.16
16-Sep-21	241	155	48	14.16	27.14
05-Oct-21	246	170	58	13.63	29
18-Oct-21	309	217	67	13.72	28.93
02-Nov-21	287	161	57	14.32	29.37
17-Nov-21	289	173	63	10.89	20.1
03-Dec-21	123	100	64	15.65	29.74
17-Dec-21	232	159	44	10.38	27.16
03-Jan-22	215	160	54	14.96	33.47
17-Jan-22	197	123	46	19.93	31.11
02-Feb-22	165	120	40	15.56	34.09
16-Feb-22	159	101	37	11.22	32.82
02-Mar-22	193	132	50	13.34	26.58
15-Mar-22	166	107	36	13.09	20.68
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	389	217	67	25.7	38.51
Minimum	123	80	33	10	17
Average	224.58	138.54	48.63	14.73	28.22
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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Table: 7.20
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Project Office
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
05-Apr-21	283	152	56	16.41	34.59
21-Apr-21	301	183	51	16.2	33.62
05-May-21	228	139	45	24.58	39.26
19-May-21	202	117	34	24.94	41.62
03-Jun-21	176	96	45	16.36	24.09
17-Jun-21	221	133	47	12.52	30.3
06-Jul-21	193	120	50	12.47	17
20-Jul-21	149	80	36	15.63	34.39
04-Aug-21	173	114	39	14.32	19.57
18-Aug-21	159	97	44	11.73	18.82
02-Sep-21	111	69	29	12.52	21.49
16-Sep-21	119	73	33	13.77	21.75
08-Oct-21	232	140	43	11.98	30.84
18-Oct-21	272	174	50	11.5	28.78
02-Nov-21	271	155	47	17.61	29.46
17-Nov-21	261	173	50	9.22	19.24
03-Dec-21	287	246	35	19.4	30.24
17-Dec-21	288	163	61	19.65	27.95
03-Jan-22	270	205	55	13.66	27.81
17-Jan-22	255	173	50	18.77	33.64
02-Feb-22	155	107	36	14.89	31.27
16-Feb-22	180	122	55	11.2	26.44
02-Mar-22	205	126	58	16.74	24.2
15-Mar-22	199	126	45	18.02	27.01
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	301	246	61	24.94	41.62
Minimum	111	69	29	9	17
Average	216.25	136.79	45.58	15.59	28.06
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

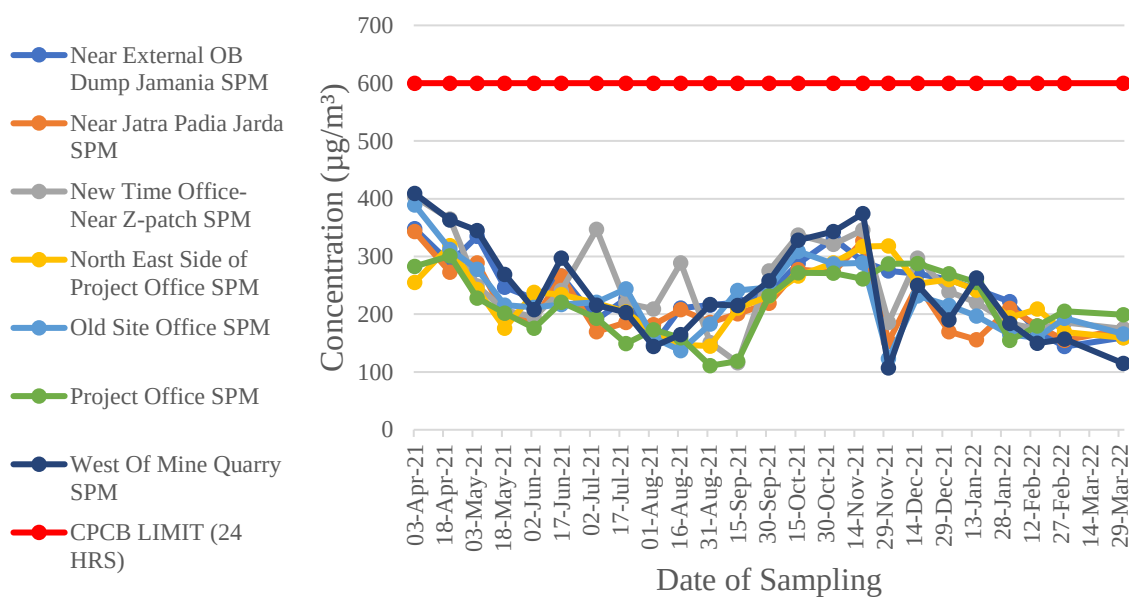
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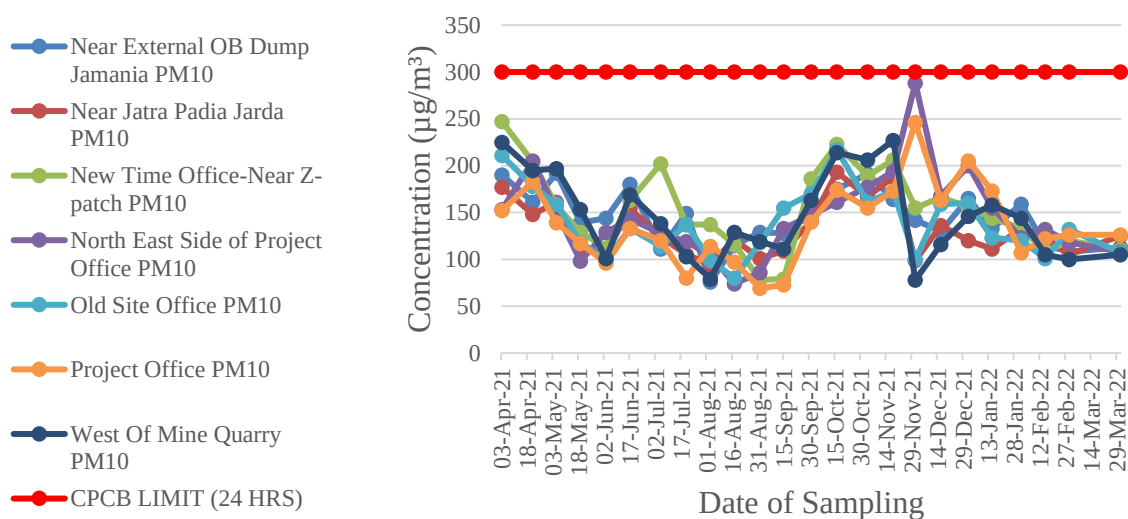
Table: 7.21
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: West of Mine Quarry
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
03-Apr-21	409	225	66	19.71	38.59
20-Apr-21	363	195	70	17.62	33.51
04-May-21	345	197	58	16.03	43.75
18-May-21	269	153	41	23.36	45.76
02-Jun-21	208	101	54	24.1	36.18
16-Jun-21	297	169	57	29.08	41.41
05-Jul-21	216	138	57	10	14.88
19-Jul-21	203	103	49	9.68	25.8
02-Aug-21	144	79	35	9.44	17.66
16-Aug-21	165	129	32	16.81	23.67
01-Sep-21	217	119	36	12.93	17.58
15-Sep-21	215	111	43	12.94	32
05-Oct-21	258	163	49	13	30.84
18-Oct-21	328	214	59	10.5	26.29
03-Nov-21	343	206	67	18.81	24.46
18-Nov-21	374	227	73	17.1	30.06
01-Dec-21	107	78	42	20.3	44.88
16-Dec-21	250	116	35	16.49	21.8
01-Jan-22	190	146	48	19.79	23.38
15-Jan-22	263	158	59	20.41	33.02
01-Feb-22	184	144	51	20.63	22.79
15-Feb-22	150	105	40	10.37	21.67
01-Mar-22	157	100	30	21.37	25.57
31-Mar-22	115	105	36	16.35	27.34
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	409	227	73	29.08	45.76
Minimum	107	78	30	9	15
Average	240.42	145.04	49.46	16.95	29.29
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

Graph Showing SPM for Kaniha OCP



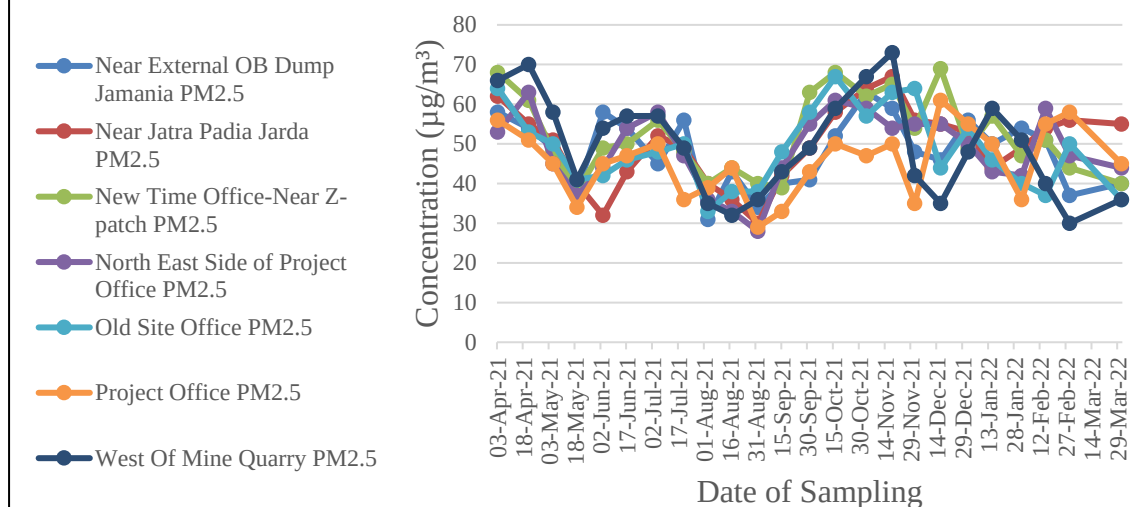
Graph Showing PM₁₀ for Kaniha OCP



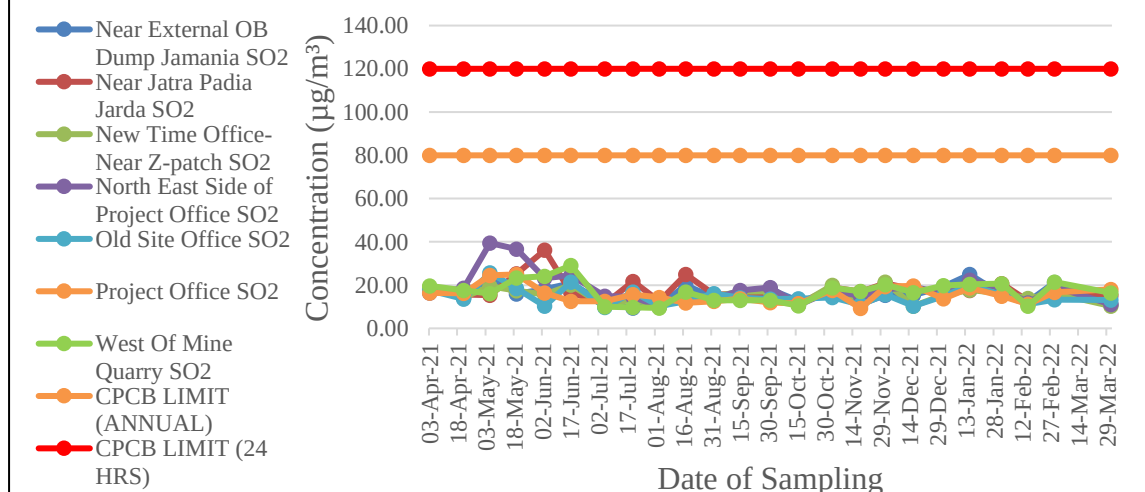
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Graph Showing PM_{2.5} for Kaniha OCP



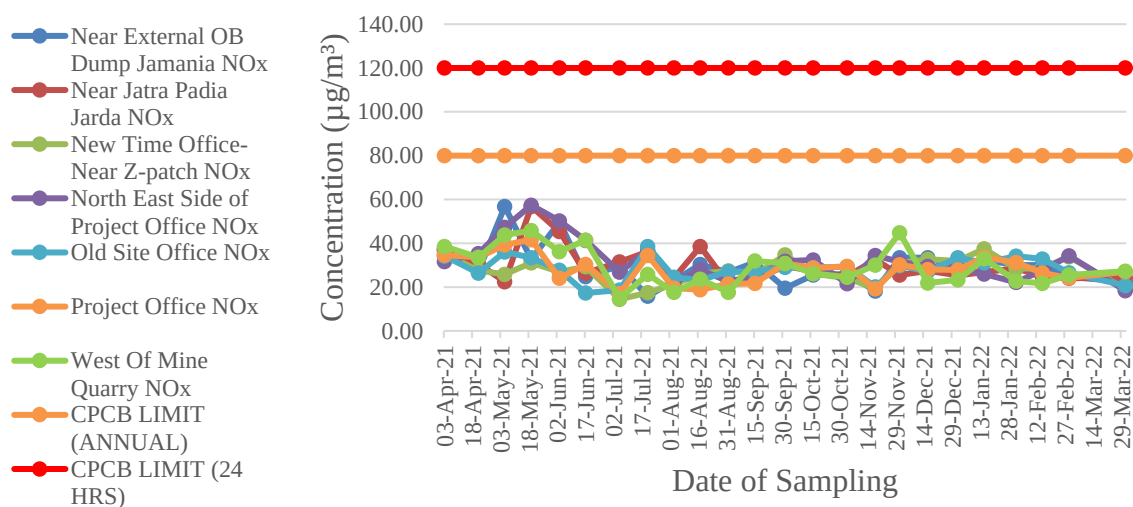
Graph Showing SO₂ for Kaniha OCP



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Graph Showing NO_x for Kaniha OCP



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Table: 7.22
Area: Hingula
Project: Hingula OCP
Monitoring Station: South-West Side of Mine
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
01-Apr-21	495	232	66	18.69	39.25
03-May-21	296	169	51	19.1	20.58
20-May-21	225	119	42	19.1	35.48
01-Jun-21	247	151	55	27.4	49.09
15-Jun-21	269	169	51	24.64	50.9
01-Jul-21	406	222	54	15.5	24.6
15-Jul-21	276	162	48	13.67	29.97
02-Aug-21	222	135	40	7.1	16.4
16-Aug-21	223	152	48	11.92	15.86
02-Sep-21	157	97	39	20.1	19.7
15-Sep-21	217	129	47	14.41	17.81
05-Oct-21	284	170	64	14.61	29.61
18-Oct-21					
02-Nov-21	329	197	68	14.66	25.41
17-Nov-21	368	222	72	12.59	21.15
01-Dec-21	155	135	54	19.7	26.8
16-Dec-21	231	190	61	18.92	33.19
01-Jan-22	186	111	40	19.15	26.44
15-Jan-22	161	101	30	23.64	33.95
01-Feb-22	188	145	55	15.94	31.86
15-Feb-22	163	133	41	14.74	23.96
01-Mar-22	220	129	57	17.08	23.19
31-Mar-22	160	102	40	9.89	18.32
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	495	232	72	27.4	50.9
Minimum	155	97	30	7	16
Average	249.00	153.27	51.05	16.93	27.89
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

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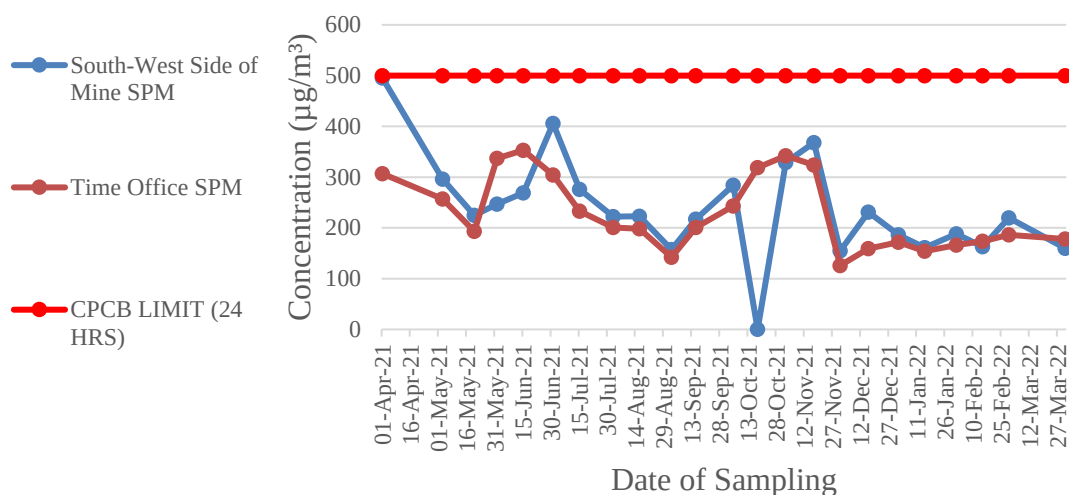
Table: 7.23
Area: Hingula
Project: Hingula OCP
Monitoring Station: Time Office
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
01-Apr-21	307	203	62	15.73	29.57
03-May-21	257	145	43	16.17	32.44
17-May-21	193	108	40	20.04	30.07
01-Jun-21	337	224	62	24.99	35.59
15-Jun-21	353	217	58	17.61	38.7
01-Jul-21	304	171	40	10.64	20.69
15-Jul-21	233	127	44	7.99	14.52
02-Aug-21	201	119	46	12.6	22.71
16-Aug-21	198	122	45	8.02	14.62
01-Sep-21	142	89	37	16.39	22.85
15-Sep-21	201	109	40	10.9	25.02
05-Oct-21	243	156	59	18.63	28.16
18-Oct-21	319	207	67	10.8	26.12
02-Nov-21	342	186	69	16	26.24
17-Nov-21	324	199	61	9.74	17.12
01-Dec-21	126	92	63	20.37	32.59
16-Dec-21	159	80	48	20.25	28.8
01-Jan-22	172	105	42	16.86	24.68
15-Jan-22	154	93	39	21.59	32.57
01-Feb-22	166	122	49	15.9	26.98
15-Feb-22	174	115	39	16.17	20.57
01-Mar-22	186	115	44	21.04	24.34
31-Mar-22	178	101	54	11.23	23.01
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	353	224	69	24.99	38.7
Minimum	126	80	37	8	15
Average	229.09	139.35	50.04	15.64	26.00
Standard (24 Hrs)	600	300	60	120	120
Standard (Annual)	430	215	40	80	80

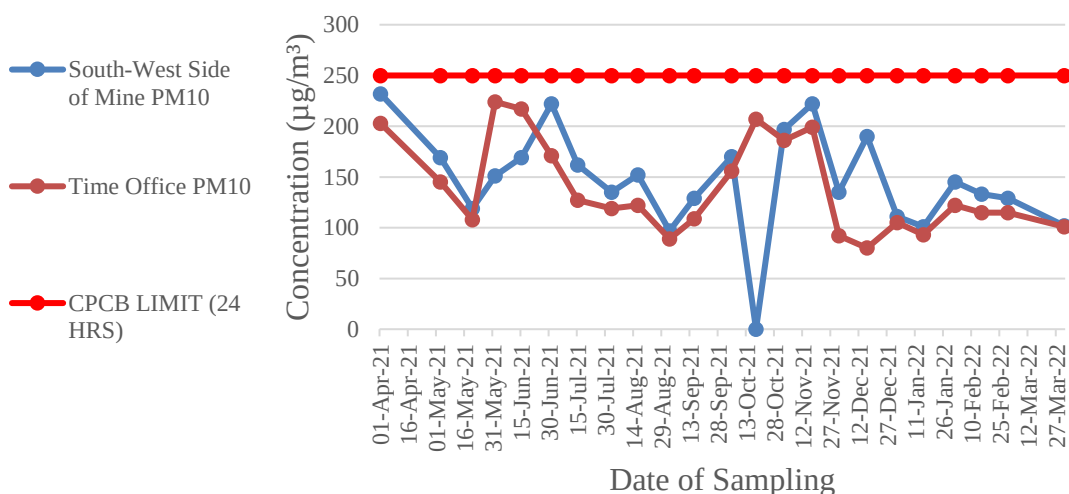
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Graph Showing SPM for Hingula OCP



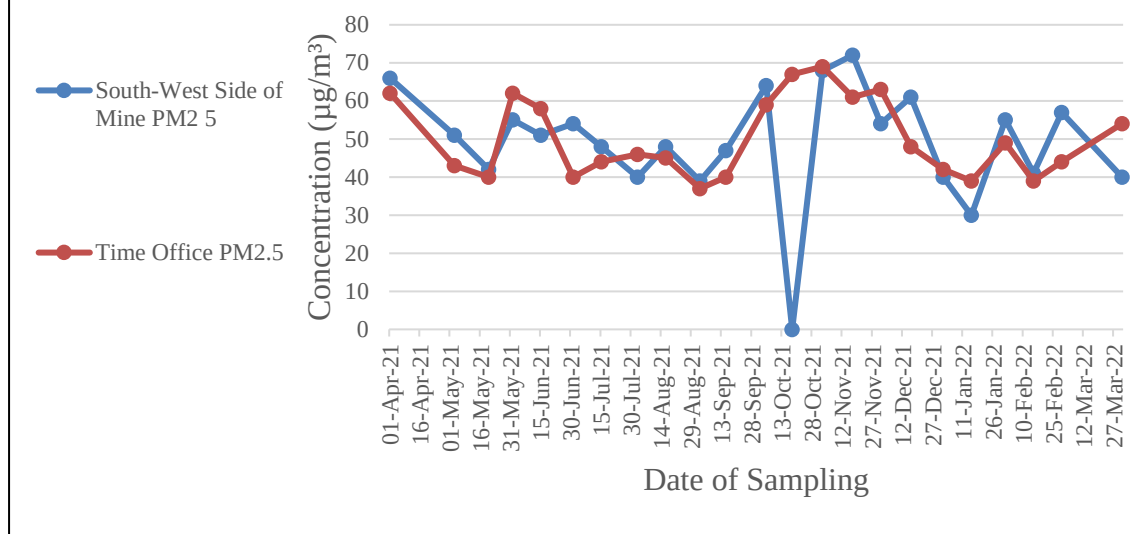
Graph Showing PM₁₀ for Hingula OCP



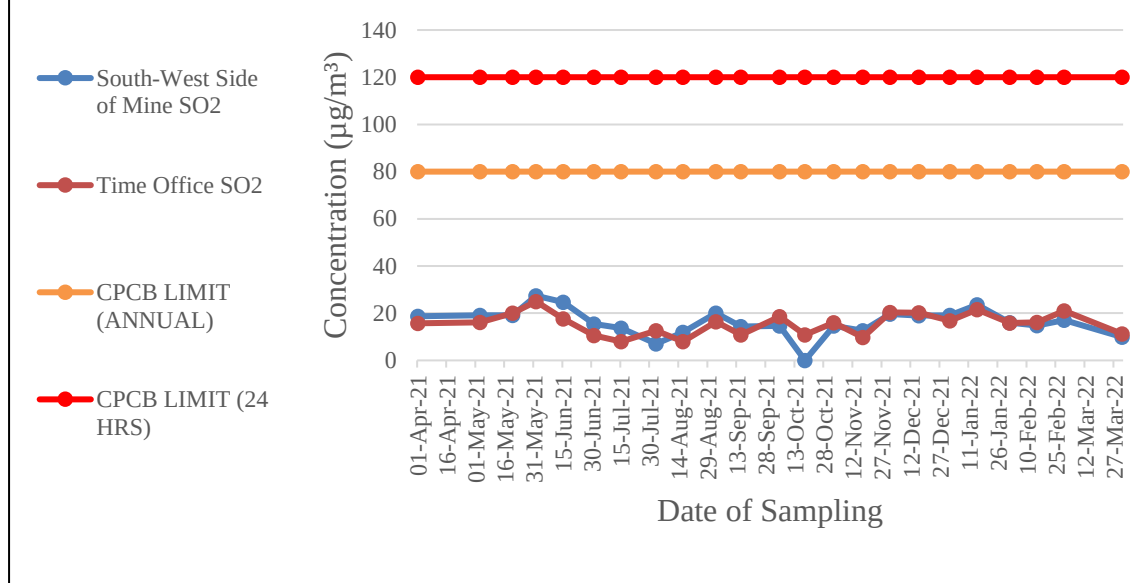
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Graph Showing PM_{2.5} for Hingula OCP



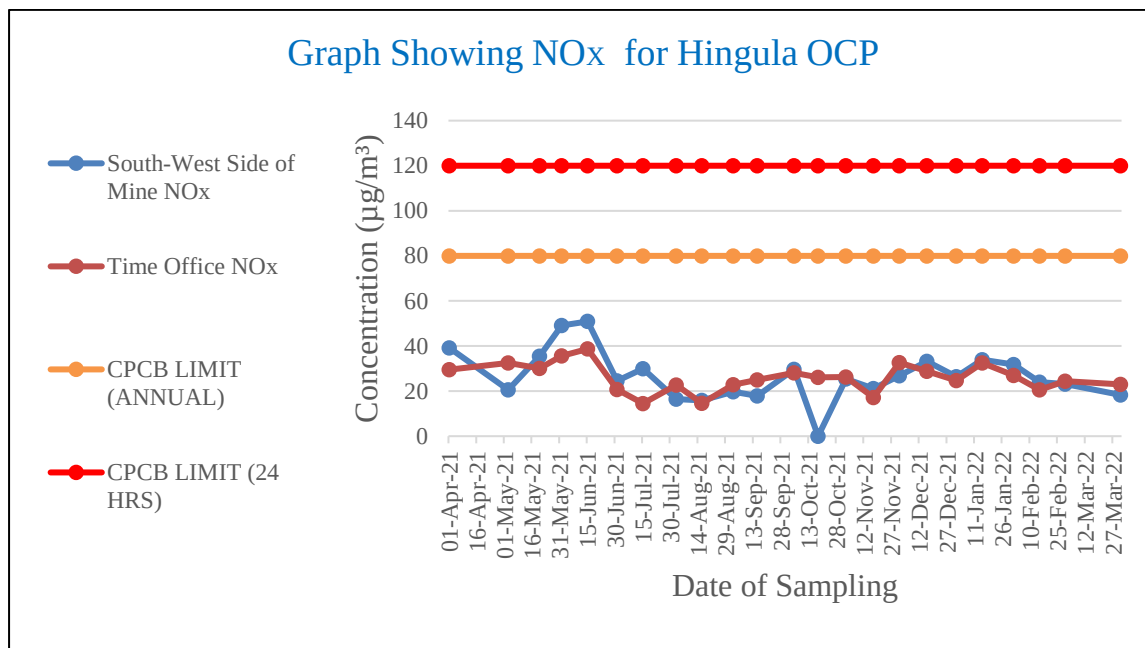
Graph Showing SO₂ for Hingula OCP



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Graph Showing NO_x for Hingula OCP



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Table: 7.24
Area: Hingula
Project: Balram OCP
Monitoring Station: Pump House Near Outsourcing Working Pach &
 Coal TR

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
02-Apr-21	482	279	73	21.35	40.59
19-Apr-21	451	263	69	21.57	40.52
03-May-21	293	202	53	18.68	27.25
17-May-21	216	129	33	16.79	34.41
02-Jun-21	163	97	46	18.24	29.96
16-Jun-21	269	143	51	19.78	35.61
01-Jul-21	296	187	46	15.74	36.23
20-Jul-21	241	135	41	23.83	29.21
03-Aug-21	259	148	39	10.2	11.57
17-Aug-21	215	123	31	12.39	19.88
02-Sep-21	182	117	39	18.67	21.16
16-Sep-21	255	143	45	16.51	24.66
04-Oct-21	281	189	47	14.88	26.61
19-Oct-21	341	227	56	13.49	22.51
05-Nov-21	292	167	74	17.3	26.6
19-Nov-21	310	184	64	10.18	21.47
06-Dec-21	157	122	62	17.33	28.98
20-Dec-21	194	98	63	17.98	27.89
04-Jan-22	205	152	43	18.85	33.14
18-Jan-22	177	140	37	20.33	25.74
04-Feb-22	186	125	40	18.06	23.24
18-Feb-22	225	155	57	12.44	25.75
04-Mar-22	196	122	53	14.01	26.59
17-Mar-22	188	121	50	17.23	29.01
Brief Statistics	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	482	279	74	23.83	40.59
Minimum	157	97	31	10	12
Average	253.08	157.00	50.50	16.91	27.86
Standard (24 Hrs)	600	300	60	120	120
Standard (Annual)	430	215	40	80	80

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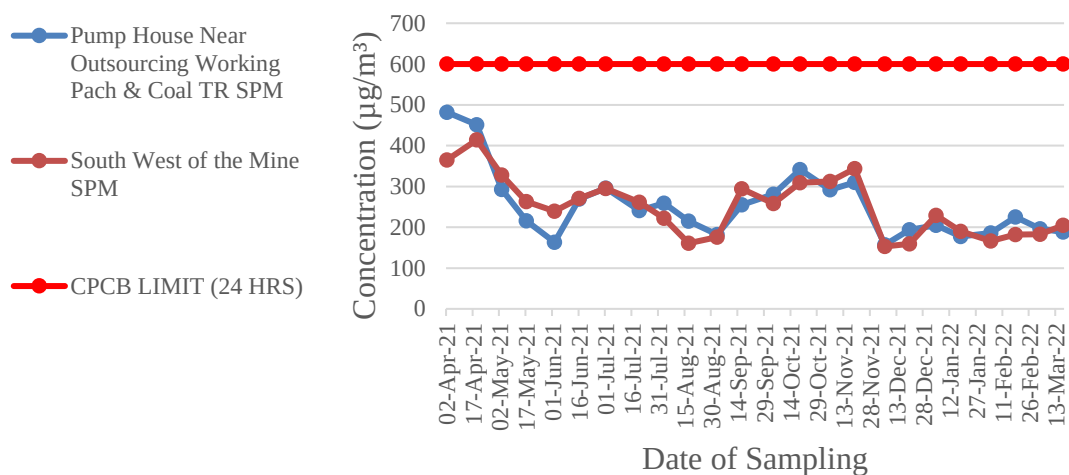
Table: 7.25
Area: Hingula
Project: Balram OCP
Monitoring Station: South West of the Mine
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
02-Apr-21	365	209	66	19.68	37.21
19-Apr-21	414	259	79	20.73	40.15
03-May-21	328	181	50	23.32	37.97
17-May-21	263	151	46	19.68	35.76
02-Jun-21	239	119	48	14.04	33.35
16-Jun-21	271	166	53	18.28	35.15
01-Jul-21	295	193	63	11.66	16.44
19-Jul-21	261	149	57	19.77	32.95
03-Aug-21	222	127	43	7.82	13
17-Aug-21	161	98	37	10.55	20.48
01-Sep-21	176	102	33	14.53	14.89
16-Sep-21	294	163	49	17.58	20.79
04-Oct-21	258	169	53	13.37	29.17
19-Oct-21	309	215	61	11.89	17.58
05-Nov-21	312	181	69	18.87	30.68
19-Nov-21	344	213	74	7.72	19
06-Dec-21	153	71	39	21.61	36.5
20-Dec-21	159	104	52	20.04	24.1
04-Jan-22	229	174	46	16.79	32.32
18-Jan-22	190	133	42	19.42	30.85
04-Feb-22	166	105	46	21.57	20.33
18-Feb-22	182	132	50	10.01	24.42
04-Mar-22	183	101	47	15.77	24.61
17-Mar-22	205	133	55	17.26	29.32
Brief Statistics	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	414	259	79	23.32	40.15
Minimum	153	71	33	8	13
Average	249.13	152.00	52.42	16.33	27.38
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

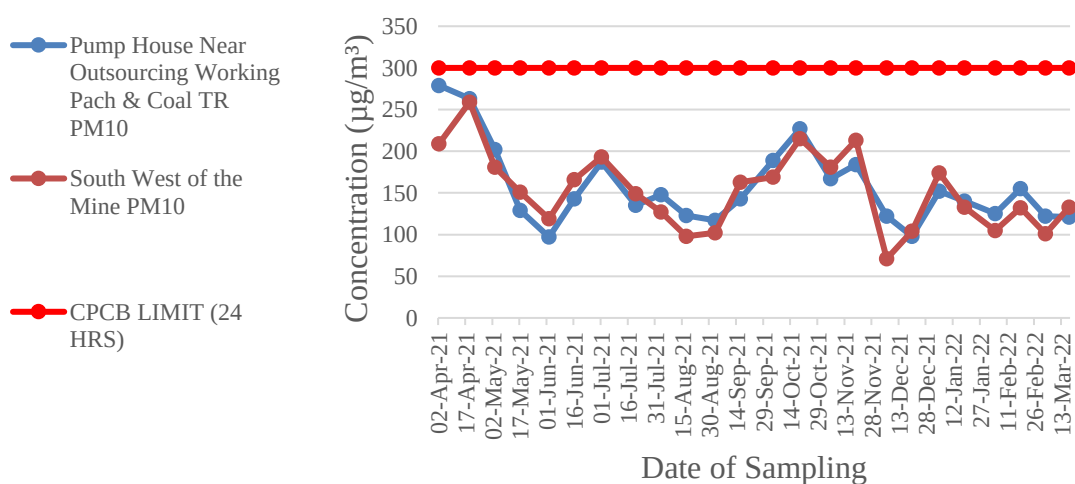
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Graph Showing SPM for Balram OCP



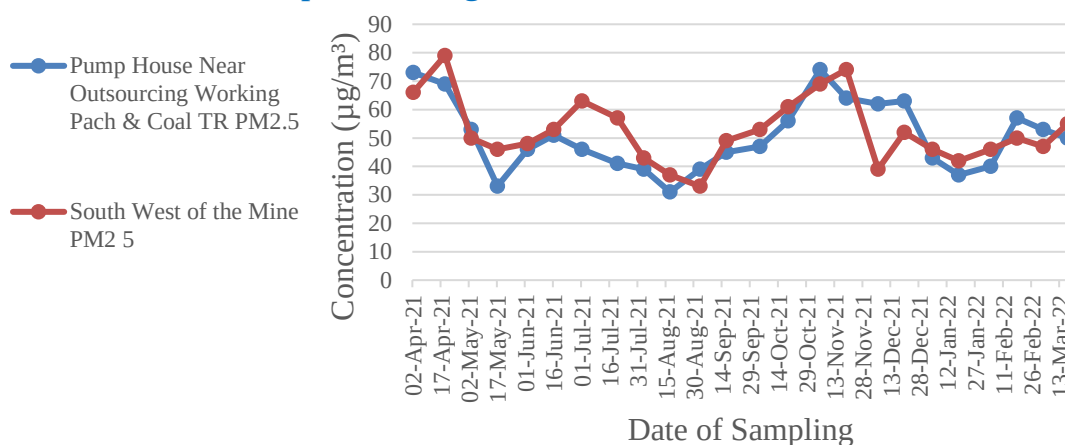
Graph Showing PM₁₀ for Balram OCP



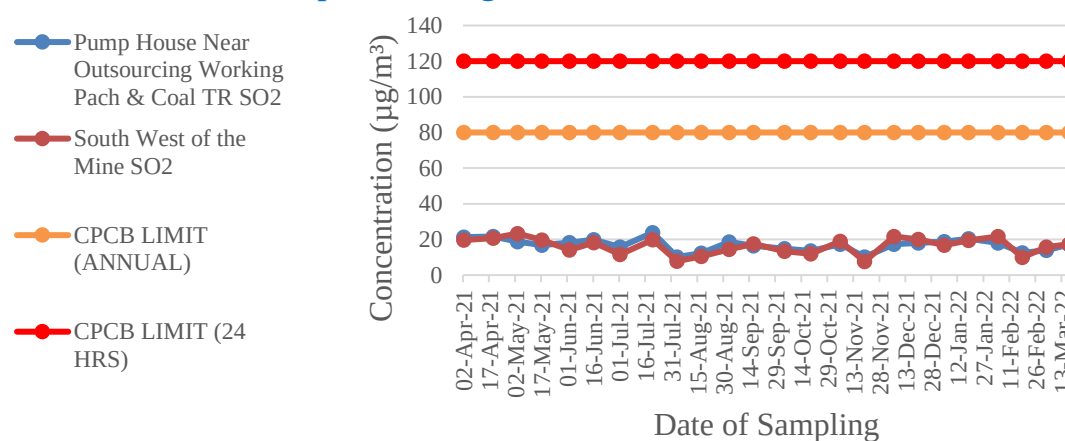
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Graph Showing PM_{2.5} for Balram OCP

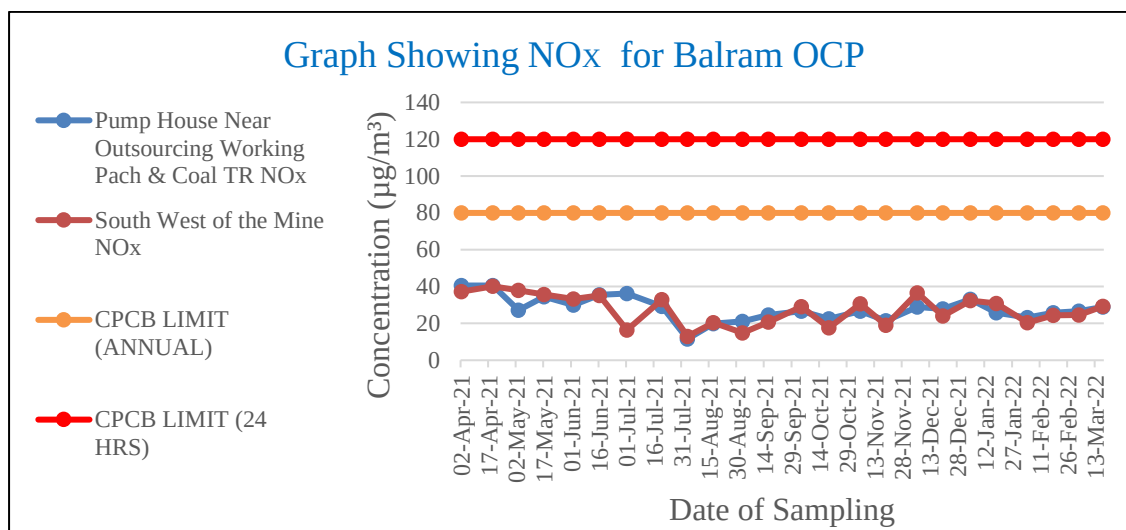


Graph Showing SO₂ for Balram OCP



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JOB NO.750001

Table: 7.26
Area: Talcher
Project: Talcher Colliery
Monitoring Station: Near Canteen Talcher Colliery
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
08-Apr-21	Strike				
27-Apr-21	412	196	44	17.43	34.52
10-May-21	218	139	50	34.74	36.05
24-May-21	180	102	36	20.18	33.88
08-Jun-21	230	118	49	19.03	22.98
24-Jun-21	224	129	45	24.72	39.52
12-Jul-21	141	87	32	12.15	16.19
27-Jul-21	131	69	27	14.42	21.03
10-Aug-21	194	102	35	10.53	19.37
24-Aug-21	187	129	40	13.25	18.37
10-Sep-21	124	71	34	18.29	23.1
24-Sep-21	193	109	43	10.07	24.9
12-Oct-21	196	129	44	16.86	33.76
26-Oct-21	221	147	53	10.52	19.3
11-Nov-21	235	144	44	16.13	27.34
25-Nov-21	263	179	49	11.26	23.75
09-Dec-21	125	66	33	21.82	26.28
23-Dec-21	179	100	56	16.81	24.2
10-Jan-22	155	96	34	22.76	36.5
27-Jan-22	145	88	30	21.13	38.33
09-Feb-22	177	128	44	16.02	32.36
23-Feb-22	205	132	54	12.32	25.5
09-Mar-22	174	109	45	14.52	24.36
23-Mar-22	175	118	47	13.28	25.63
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	412	196	56	34.74	39.52
Minimum	124	66	27	10	16
Average	194.96	116.83	42.09	16.88	27.27
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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JOB NO.750001

Table: 7.27
Area: Talcher
Project: Talcher Colliery
Monitoring Station: Officer Club, Talcher Area
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
08-Apr-21	Strike				
27-Apr-21	202	128	37	15.46	26.91
10-May-21	149	94	38	18.33	27.31
24-May-21	129	80	28	24.25	25.78
08-Jun-21	210	112	36	23.47	21.95
24-Jun-21	104	61	33	17.61	30.3
12-Jul-21	86	50	27	10.61	25.65
27-Jul-21	107	61	25	18.39	28.84
10-Aug-21	113	62	29	10.88	17.28
24-Aug-21	101	64	30	12.39	13.3
10-Sep-21	101	57	30	14.36	23.97
24-Sep-21	168	96	35	10.8	22.4
12-Oct-21	151	104	33	14.17	25.72
26-Oct-21	177	126	36	13.8	23.32
11-Nov-21	181	113	37	19.71	26.75
25-Nov-21	198	129	42	10.07	22.22
09-Dec-21	260	199	40	25.92	28.55
23-Dec-21	178	98	61	17.31	29.56
10-Jan-22	159	80	30	18.99	31.62
27-Jan-22	123	76	28	22.38	19.88
09-Feb-22	189	133	57	16.57	32.6
23-Feb-22	184	125	50	10.2	22.11
09-Mar-22	186	112	50	15.67	22.25
23-Mar-22	194	126	53	19.23	28.32
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	260	199	61	25.92	32.6
Minimum	86	50	25	10	13
Average	158.70	99.39	37.61	16.55	25.07
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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JOB NO.750001

Table: 7.28
Area: Talcher
Project: Nandira Colliery
Monitoring Station: Project Office
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
05-Apr-21	284	160	56	15.49	29.31
19-Apr-21	348	215	72	16.69	32.83
03-May-21	318	193	50	14.41	33.43
17-May-21	226	133	41	19.7	36.65
01-Jun-21	222	96	33	20.54	26.27
16-Jun-21	197	121	44	25.27	21.99
01-Jul-21	169	86	37	13.11	19.66
15-Jul-21	115	73	39	11.76	20.35
05-Aug-21	109	59	30	10.14	13.5
19-Aug-21	112	58	29	11.19	12.63
08-Sep-21	128	72	35	15.07	27.1
22-Sep-21	214	117	39	12.66	22.84
05-Oct-21	195	109	35	18.96	32.85
22-Oct-21	239	141	40	11.79	25.03
10-Nov-21	248	157	46	19.87	34.05
24-Nov-21	271	173	51	14.98	21.06
09-Dec-21	193	162	38	20.7	33.45
23-Dec-21	234	180	58	18.94	26.25
10-Jan-22	162	90	36	22.34	28.54
27-Jan-22	155	87	32	22.92	25.37
09-Feb-22	210	144	55	15.5	20.64
23-Feb-22	170	120	47	14.67	19.68
09-Mar-22	195	130	55	19.23	26.88
23-Mar-22	165	114	48	18.25	26.32
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	348	215	72	25.27	36.65
Minimum	109	58	29	10	13
Average	203.29	124.58	43.58	16.84	25.70
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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JOB NO.750001

Table: 7.29
Area: Talcher
Project: Nandira Colliery
Monitoring Station: Sub Station
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
05-Apr-21	363	243	62	18.68	30.57
19-Apr-21	329	208	55	15.32	27.61
03-May-21	338	189	46	22.72	43.39
17-May-21	209	133	38	23.76	32.11
01-Jun-21	179	101	46	16.48	37.23
15-Jun-21	229	134	53	35.43	43.46
01-Jul-21	175	109	34	20.55	34.25
15-Jul-21	145	89	32	19.09	30.59
05-Aug-21	139	79	35	13.7	21.11
19-Aug-21	119	67	28	10.07	15.35
08-Sep-21	143	82	30	13.89	28.02
22-Sep-21	246	133	37	13.45	19.13
08-Oct-21	207	121	44	14.41	30.66
22-Oct-21	253	162	45	9.4	20.9
10-Nov-21	273	169	48	17.29	25.02
24-Nov-21	293	188	54	15.15	23.51
09-Dec-21	344	190	60	22.17	28.97
23-Dec-21	236	163	69	20.25	27.36
10-Jan-22	147	87	32	14.33	31.95
27-Jan-22	168	126	36	18.67	27.5
09-Feb-22	177	128	49	14.93	22.35
23-Feb-22	162	115	41	16.95	25.37
09-Mar-22	205	144	58	20.62	30.03
23-Mar-22	170	108	42	12.32	20.32
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	363	243	69	35.43	43.46
Minimum	119	67	28	9	15
Average	218.71	136.17	44.75	17.48	28.20
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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JOB NO.750001

Table: 7.30
Area: Talcher
Project: Deulbera Colliery
Monitoring Station: IWSS, Talcher (Reported Only)
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
06-Apr-21	372	206	62	18.74	35.16
22-Apr-21	292	155	55	17.65	35.47
06-May-21	218	133	44	19.07	42.93
20-May-21	184	105	38	16.07	31.8
07-Jun-21	230	123	48	20.65	34.76
22-Jun-21	185	108	40	18.91	21.45
07-Jul-21	291	177	49	12.87	21.45
22-Jul-21	246	130	46	13.34	23.2
04-Aug-21	137	73	33	11.45	18.18
18-Aug-21	171	99	44	8.79	14.62
06-Sep-21	233	145	45	17.16	24.96
20-Sep-21	141	77	45	15.1	24
06-Oct-21	236	151	46	15.24	26.34
20-Oct-21	291	177	56	16.21	21.58
08-Nov-21	367	226	77	14.94	24.5
22-Nov-21	373	208	69	10.27	14.44
06-Dec-21	126	53	26	24.96	23.15
20-Dec-21	237	156	69	10.9	28.53
04-Jan-22	148	78	36	16.37	27.75
18-Jan-22	133	70	30	18.44	34.31
03-Feb-22	198	133	55	13.69	31.27
17-Feb-22	181	126	48	16.62	27.32
03-Mar-22	165	96	45	18.91	24.4
16-Mar-22	210	120	44	13.2	23.69
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	373	226	77	24.96	42.93
Minimum	126	53	26	9	14
Average	223.54	130.21	47.92	15.81	26.47
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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Table: 7.31
Area: Talcher
Project: Handidhua Colliery
Monitoring Station: Manager's Office
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	MSPM	PM10	PM2.5	SO2	NOX
14-Apr-21	232	154	51	15.61	28.67
28-Apr-21	184	104	48	11.28	22.61
12-May-21	191	125	43	29.03	47.65
26-May-21	88	50	26	23.32	40.82
09-Jun-21	217	123	37	23.5	35.15
28-Jun-21	169	110	49	14.23	27.1
12-Jul-21	187	107	42	14.09	26.83
27-Jul-21	164	96	33	13.11	21.01
10-Aug-21	106	62	31	14.48	20.53
24-Aug-21	122	83	37	13.12	21.83
10-Sep-21	146	86	36	18.9	35.52
24-Sep-21	248	139	45	12.99	23.66
12-Oct-21	193	109	41	13.36	28.3
26-Oct-21	231	139	46	8.89	18.14
11-Nov-21	239	141	44	21.65	34.37
25-Nov-21	249	164	50	16.39	33
09-Dec-21	214	155	44	20.78	32.27
23-Dec-21	284	134	59	13.18	32.48
10-Jan-22	155	132	52	20.48	36.95
27-Jan-22	187	155	56	18.33	27.97
09-Feb-22	177	126	48	20.62	34.23
23-Feb-22	166	123	42	16.22	28.94
09-Mar-22	169	115	48	21.96	25.4
23-Mar-22	169	111	48	18.26	26.3
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	284	164	59	29.03	47.65
Minimum	88	50	26	9	18
Average	186.96	118.46	44.00	17.24	29.57
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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Table: 7.32
Area: Talcher
Project: Kakudi & kishoripal sand mine
Monitoring Station: Near Kishoripal Village
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
13-Apr-21	289	161	57	15.46	29.79
28-Apr-21	273	142	54	11.53	22.46
12-May-21	184	117	44	36.36	48.09
26-May-21	133	87	30	20.67	39.6
09-Jun-21	213	104	48	21.33	25.64
28-Jun-21	238	115	45	19.01	23.65
12-Jul-21	167	95	39	14.22	24.55
27-Jul-21	167	105	42	11.82	17.66
10-Aug-21	193	105	30	16.73	20.01
24-Aug-21	214	119	35	11.47	13.99
11-Sep-21	182	123	39	17.24	26.64
25-Sep-21	213	125	44	11.29	23.42
13-Oct-21	206	134	45	18.74	21.64
27-Oct-21	263	170	49	10.41	22.54
10-Nov-21	228	133	47	19.53	26.52
24-Nov-21	275	164	58	15.57	32.48
08-Dec-21	135	55	22	22.95	29.5
22-Dec-21	152	85	38	13.19	33.42
08-Jan-22	164	105	28	23.94	40.13
22-Jan-22	143	88	24	22.29	28.12
05-Feb-22	195	133	32	20.27	21.17
19-Feb-22	135	96	33	20.8	31.94
05-Mar-22	163	86	34	19.16	28.73
18-Mar-22	166	129	53	11.2	24.21
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	289	170	58	36.36	48.09
Minimum	133	55	22	10	14
Average	195.46	115.67	40.42	17.72	27.33
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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Table: 7.33
Area: Talcher
Project: Mandapal Sand Mine
Monitoring Station: Near Mandapal Chowk
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
13-Apr-21	263	179	54	17.35	33.48
26-Apr-21	294	155	56	12.69	23.47
09-Jun-21	228	127	56	25.2	30.16
28-Jun-21	224	125	54	15.73	23.95
10-Jul-21	Machine	break	down	-	-
28-Jul-21	93	56	30	17.67	28.4
11-Aug-21	148	87	37	9.85	20.7
25-Aug-21	197	134	43	20.26	28.27
13-Sep-21	179	103	41	13.95	28.6
27-Sep-21	235	121	41	12.11	24.12
13-Oct-21	231	139	47	17.35	29.53
27-Oct-21	274	169	52	10.48	17.77
11-Nov-21	273	159	49	12.05	29.66
25-Nov-21	296	177	56	12.52	22
11-Dec-21	193	109	42	13.26	27.75
25-Dec-21	289	190	53	17.51	26.45
08-Jan-22	165	107	44	19.27	37.83
22-Jan-22	200	145	50	20.97	34.26
05-Feb-22	190	156	52	14.64	26.08
19-Feb-22	168	115	48	13.41	28.28
05-Mar-22	179	109	43	23.13	24.25
18-Mar-22	178	129	43	14.23	22.31
Brief Statistics	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	296	190	56	25.2	37.83
Minimum	93	56	30	10	18
Average	214.14	132.90	47.19	15.89	27.02
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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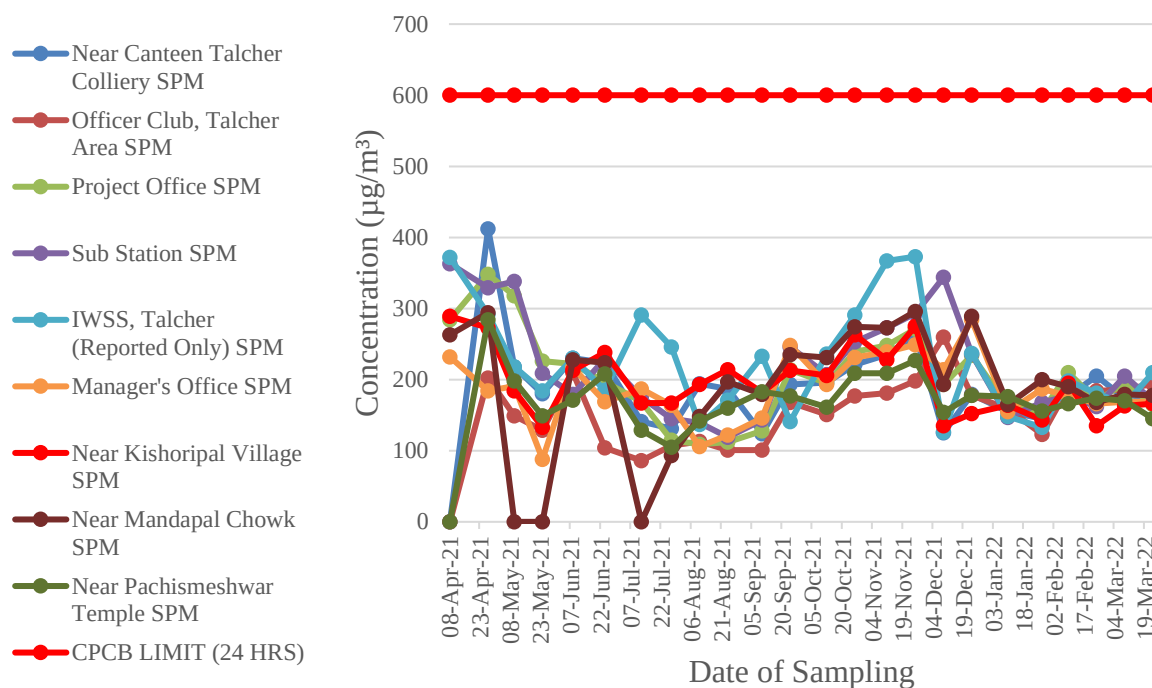
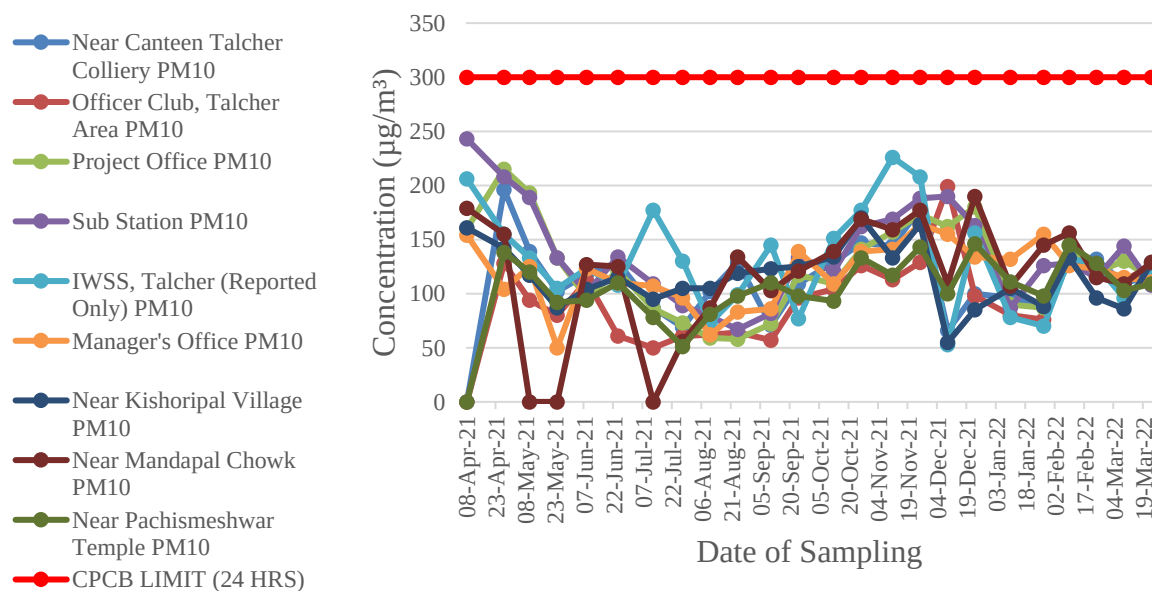
Table: 7.34
Area: Talcher
Project: Mandapal Sand Mine
Monitoring Station: Near Pachismeshwar Temple
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
28-Apr-21	284	138	63	11.72	22.19
13-May-21	198	120	39	21.03	44.01
26-May-21	149	92	28	34.01	56.84
09-Jun-21	171	94	41	24.73	32.95
26-Jun-21	208	110	31	27.9	33.81
10-Jul-21	129	78	34	16.1	25.93
28-Jul-21	105	51	28	17.47	23.51
11-Aug-21	142	81	31	11.22	17.88
25-Aug-21	160	98	36	19.16	27.72
13-Sep-21	183	110	36	15.2	33.12
27-Sep-21	177	98	39	8.34	31.36
13-Oct-21	161	93	38	13.87	25.78
27-Oct-21	209	133	45	11.28	20.66
11-Nov-21	209	117	43	21.84	35.13
25-Nov-21	227	143	49	15.42	37.05
11-Dec-21	154	100	59	20.83	35.48
25-Dec-21	178	146	59	14.35	28.75
08-Jan-22	176	111	36	22.97	34.75
22-Jan-22	156	98	30	21.38	34.29
05-Feb-22	166	145	42	19.92	18.36
19-Feb-22	174	128	46	19.52	35.22
05-Mar-22	170	103	36	22.77	29.06
18-Mar-22	145	109	36	9.07	18.3
Brief Statistics	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	284	146	63	34.01	56.84
Minimum	105	51	28	8	18
Average	175.26	108.52	40.22	18.27	30.53
Standard (24 Hrs)	600	300		120	120
Standard (Annual)				80	80

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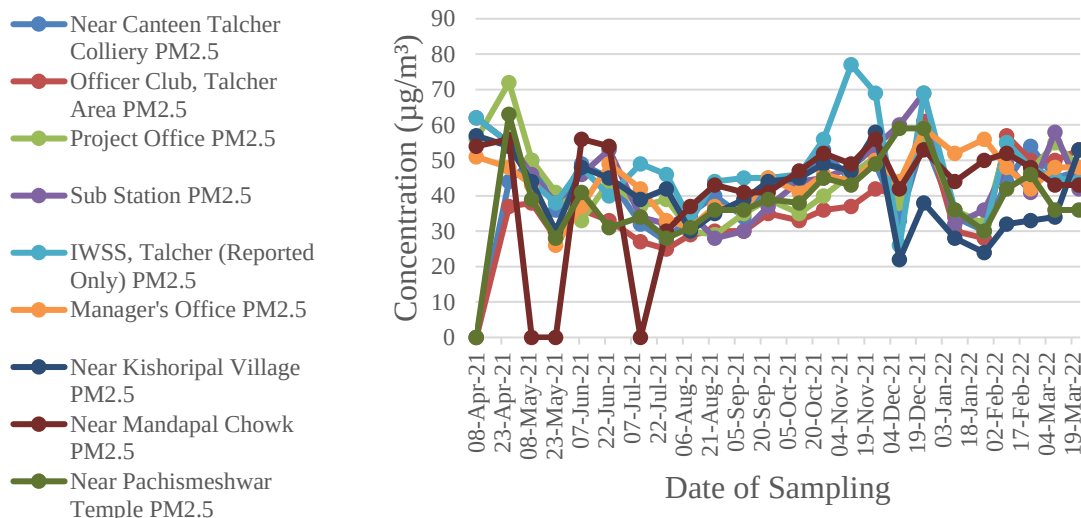
Graph Showing SPM for Talcher Area

Graph Showing PM₁₀ for Talcher Area

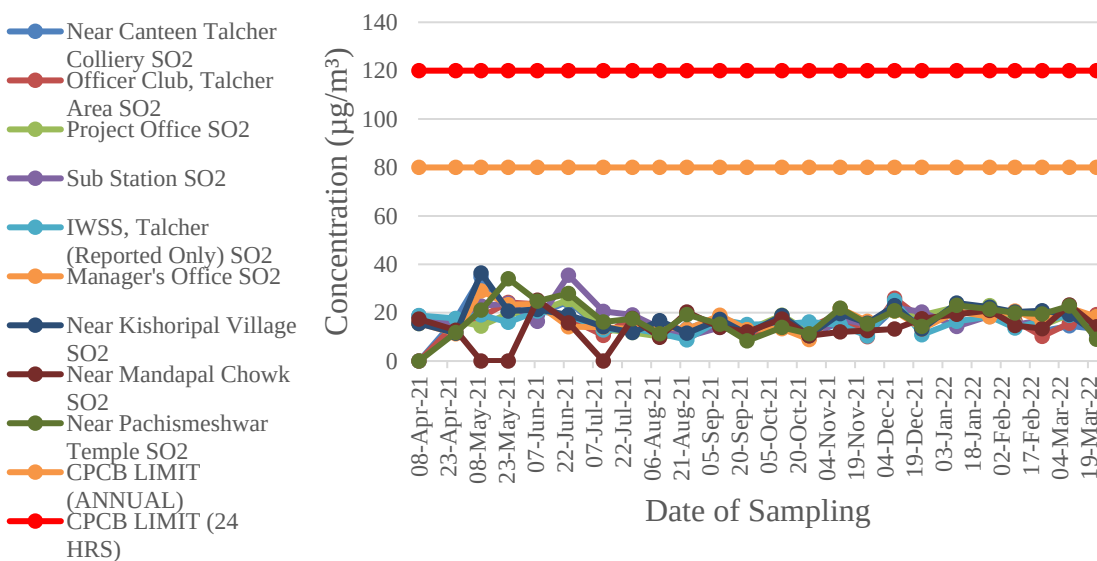
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Graph Showing PM_{2.5} for Talcher Area



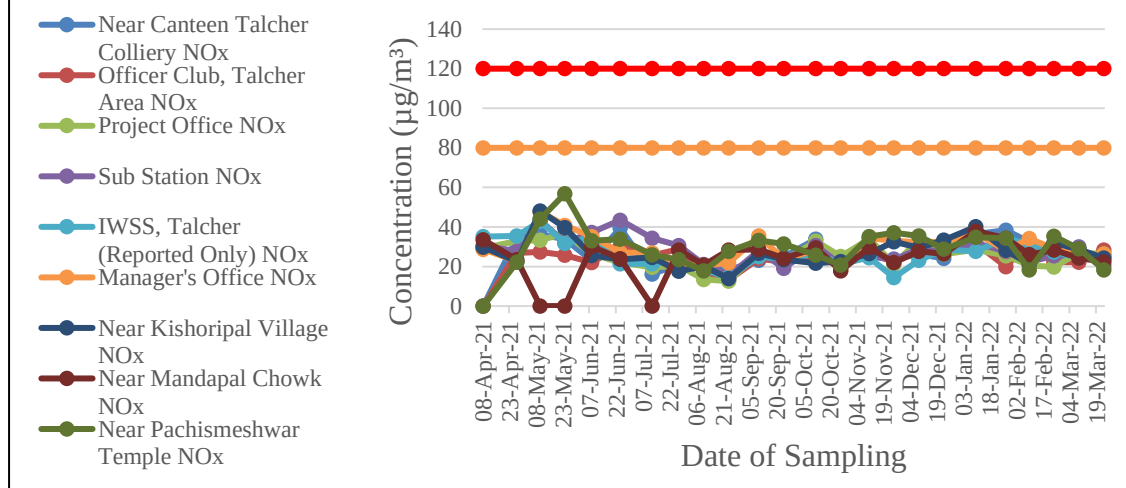
Graph Showing SO₂ for Talcher Area



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Graph Showing NOX for Talcher Area



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Table: 7.35
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: CWS Colony, Meeti
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
05-Apr-21	192	78	48	24.81	42.38
06-Apr-21	204	89	51	26.34	43.65
12-Apr-21	173	73	45	22.67	41.43
13-Apr-21	203	86	47	25.68	42.91
19-Apr-21	175	69	40	22.75	40.91
20-Apr-21	204	83	48	22.16	40.58
10-May-21	153	81	43	8.98	25.55
11-May-21	136	78	39	6.95	22.02
17-May-21	140	72	42	18.84	30.12
18-May-21	112	68	36	24.73	33.42
24-May-21	127	63	34	16.38	35.50
25-May-21	120	66	29	18.06	25.87
31-May-21	133	70	33	18.20	31.10
01-Jun-21	181	74	30	15.95	24.61
07-Jun-21	204	95	55	16.07	31.90
08-Jun-21	190	86	51	14.60	35.36
14-Jun-21	168	85	42	23.52	42.87
15-Jun-21	149	83	42	20.33	38.60
22-Jun-21	101	67	29	19.97	27.77
23-Jun-21	106	69	33	21.77	33.18
28-Jun-21	112	62	30	17.35	37.23
29-Jun-21	96	57	26	15.65	25.64
05-Jul-21	147	83	42	14.27	27.18
06-Jul-21	169	91	37	9.23	19.86
12-Jul-21	137	72	34	9.97	14.77
13-Jul-21	130	77	40	13.28	22.96
19-Jul-21	97	63	32	16.30	28.21
20-Jul-21	102	59	29	19.67	26.22
26-Jul-21	106	66	35	8.15	19.49
26-Jul-21	96	62	33	7.83	11.87
02-Aug-21	112	66	29	12.76	15.38
03-Aug-21	124	81	26	11.01	20.07
09-Aug-21	98	54	25	13.96	23.22
10-Aug-21	108	53	22	14.61	23.44
16-Aug-21	168	79	34	12.84	13.99
17-Aug-21	104	57	26	13.01	15.46
23-Aug-21	114	68	33	10.03	26.56
24-Aug-21	118	80	35	12.41	16.22
30-Aug-21	91	55	24	10.31	21.83
31-Aug-21	99	60	28	11.64	18.72
06-Sep-21	145	72	37	19.92	30.91
07-Sep-21	129	69	41	18.28	25.97
13-Sep-21	107	62	35	9.85	17.86
14-Sep-21	127	76	38	9.41	21.61
20-Sep-21	94	58	29	18.10	24.09
21-Sep-21	109	64	26	20.73	24.23
27-Sep-21	154	84	39	15.06	21.27
28-Sep-21	149	87	43	16.89	27.56
04-Oct-21	107	69	33	14.36	29.66
05-Oct-21	117	75	37	17.19	30.60

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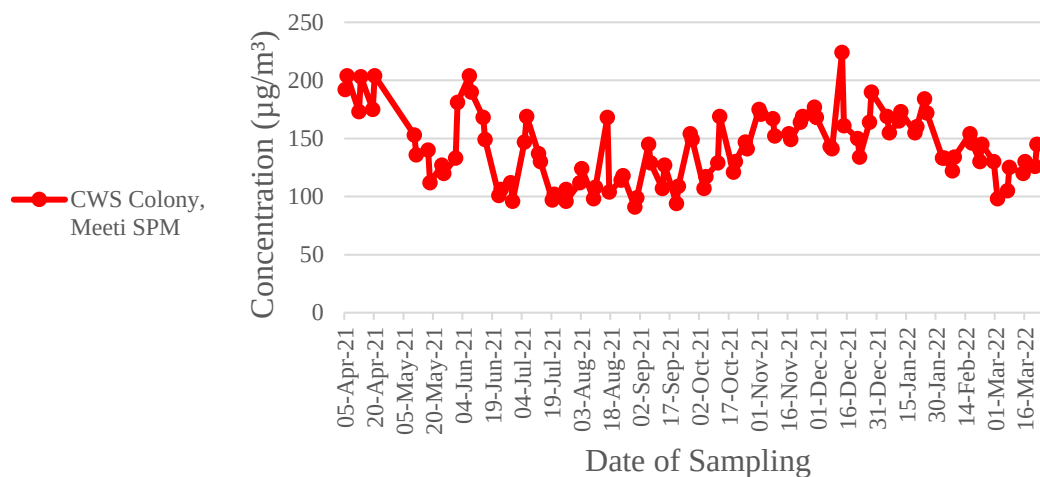
JOB NO.750001

11-Oct-21	129	81	42	13.77	19.46
12-Oct-21	169	89	40	17.27	29.73
19-Oct-21	121	78	42	11.17	27.09
20-Oct-21	130	73	39	10.59	20.38
25-Oct-21	147	83	43	15.60	21.30
26-Oct-21	141	89	46	14.01	33.27
01-Nov-21	175	82	41	12.34	26.02
02-Nov-21	171	92	46	17.10	19.28
08-Nov-21	167	88	51	13.49	19.92
09-Nov-21	152	83	49	14.32	22.65
16-Nov-21	154	74	43	14.16	20.59
17-Nov-21	149	79	46	10.70	22.57
22-Nov-21	164	88	51	13.13	21.55
23-Nov-21	169	83	49	14.07	24.23
29-Nov-21	177	91	53	14.92	26.22
30-Nov-21	168	85	43	13.13	20.58
07-Dec-21	143	50	33	18.81	29.45
08-Dec-21	141	98	55	20.67	26.19
13-Dec-21	224	166	46	23.09	25.31
14-Dec-21	161	122	75	19.52	41.65
21-Dec-21	150	77	30	11.31	36.46
22-Dec-21	134	90	37	13.04	37.28
27-Dec-21	164	80	38	16.58	31.72
28-Dec-21	190	87	49	14.72	26.27
05-Jan-22	169	90	36	21.03	33.72
06-Jan-22	155	82	34	17.84	29.50
11-Jan-22	165	75	40	19.51	28.88
12-Jan-22	173	88	32	18.09	26.10
19-Jan-22	155	90	33	17.26	31.58
20-Jan-22	160	71	39	19.62	27.32
24-Jan-22	184	86	42	21.80	22.84
25-Jan-22	172	70	44	14.21	32.43
02-Feb-22	133	85	30	17.17	31.03
03-Feb-22	133	77	35	14.87	30.07
07-Feb-22	122	70	24	15.07	19.72
08-Feb-22	134	79	31	12.40	27.39
16-Feb-22	154	98	42	14.39	33.29
17-Feb-22	146	88	45	15.83	21.05
21-Feb-22	130	79	44	13.84	25.96
22-Feb-22	145	94	47	11.11	26.24
28-Feb-22	130	75	38	8.56	33.93
02-Mar-22	98	53	22	18.60	27.84
07-Mar-22	105	61	27	17.29	28.33
08-Mar-22	125	77	32	19.27	18.64
15-Mar-22	120	63	28	16.47	34.29
16-Mar-22	130	70	37	15.12	24.64
21-Mar-22	126	77	21	11.01	22.32
22-Mar-22	145	80	25	14.25	24.36
28-Mar-22	140	84	32	10.23	19.36
29-Mar-22	125	63	27	9.47	18.23
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	224	166	75	26.34	43.65
Minimum	91	50	21	7	12
Average	142.01	77.29	37.69	15.65	27.00
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40

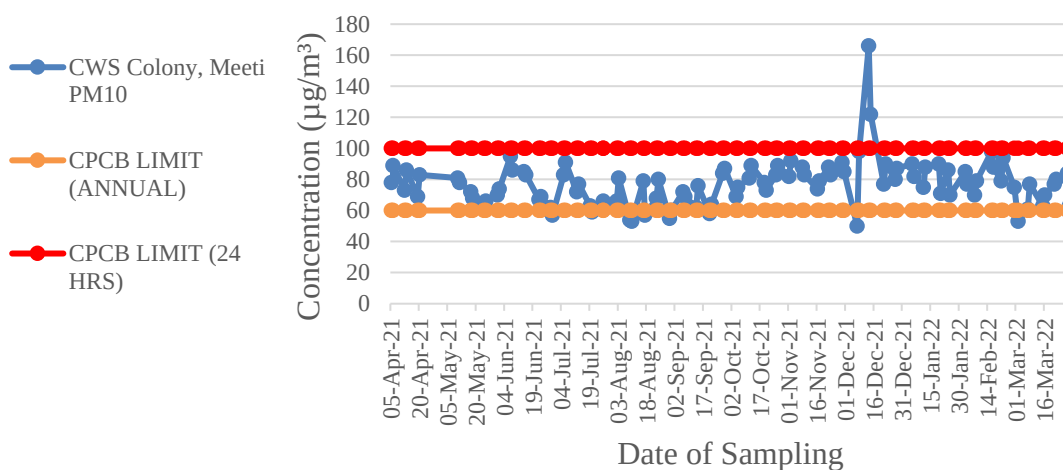
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JOB NO.750001

Graph Showing SPM for Jagannath OCP

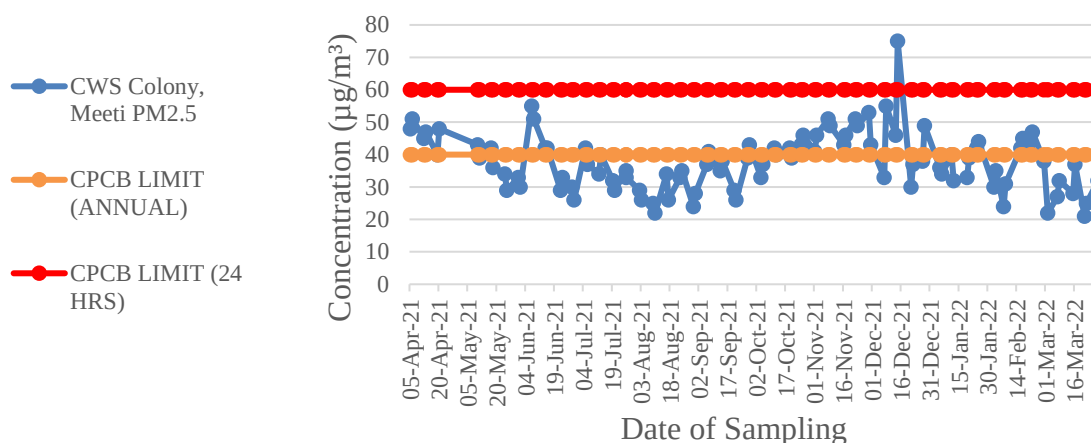
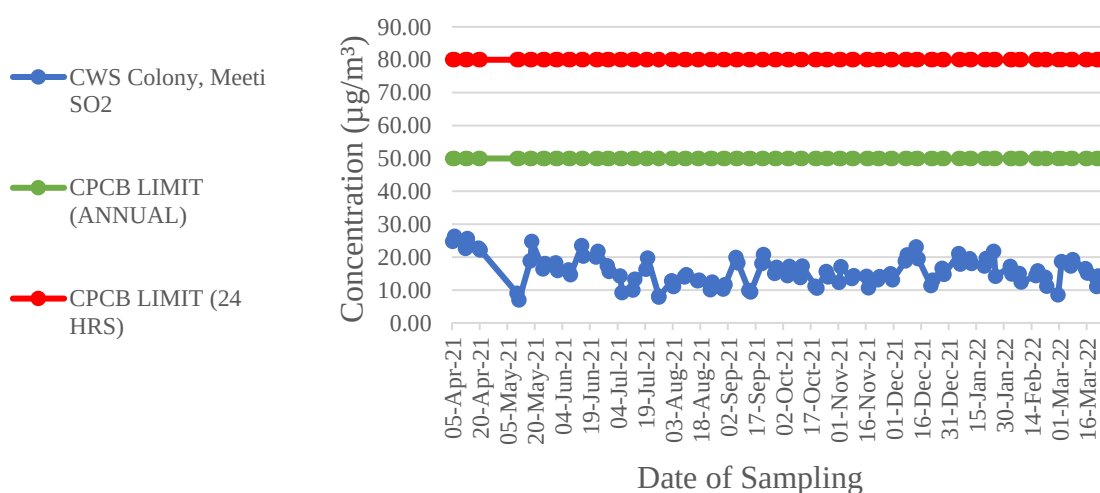
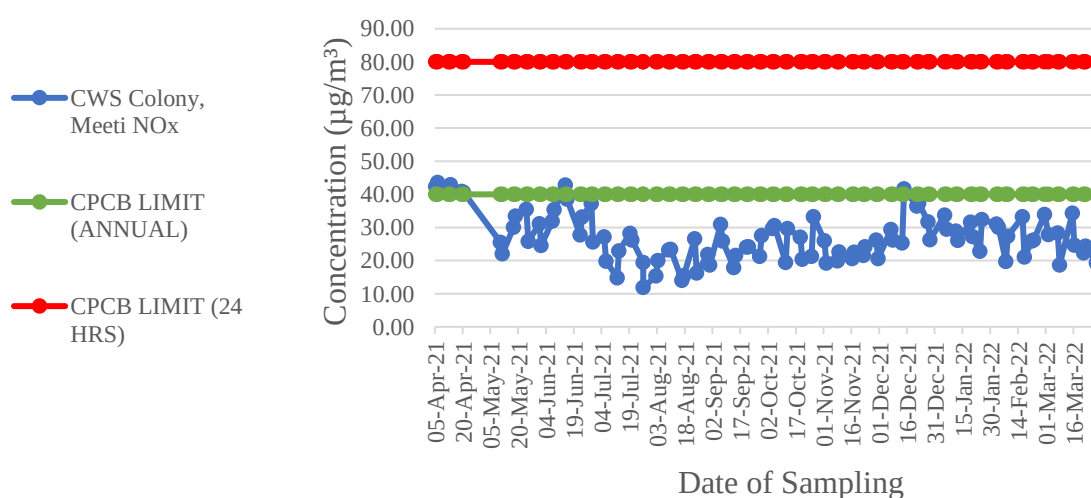


Graph Showing PM₁₀ for Jagannath OCP



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Graph Showing PM_{2.5} for Jagannath OCPGraph Showing SO₂ for Jagannath OCPGraph Showing NO_x for Jagannath OCP

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JOB NO.750001

Table: 7.36
Area: Jagannath
Project: Ananta OCP
Monitoring Station: Guthasahi Village
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
09-Apr-21	219	92	53	27.69	44.27
10-Apr-21	204	90	48	26.46	43.14
16-Apr-21	135	59	39	22.81	41.27
17-Apr-21	153	71	46	22.97	41.81
22-Apr-21	144	76	42	21.49	42.16
24-Apr-21	168	89	48	23.64	42.53
30-Apr-21	167	80	40	23.38	42.79
14-May-21	124	74	39	17.93	38.18
15-May-21	111	71	38	23.40	46.42
21-May-21	151	72	38	27.03	54.60
22-May-21	168	76	42	20.49	48.69
28-May-21	102	59	32	25.24	56.65
29-May-21	105	53	26	27.55	47.35
04-Jun-21	178	71	39	19.40	38.09
05-Jun-21	162	76	38	19.38	38.55
11-Jun-21	146	64	34	21.41	36.92
12-Jun-21	157	74	40	26.88	40.53
18-Jun-21	134	79	41	29.54	50.72
19-Jun-21	120	73	37	29.58	38.51
25-Jun-21	104	65	31	22.13	43.45
26-Jun-21	114	69	30	21.28	49.96
02-Jul-21	124	77	35	12.17	33.81
03-Jul-21	144	86	42	11.47	27.60
09-Jul-21	95	56	30	14.36	17.09
10-Jul-21	113	69	38	11.67	25.94
16-Jul-21	99	63	29	20.47	25.35
17-Jul-21	117	71	31	16.45	18.27
23-Jul-21	114	64	33	26.74	27.23
24-Jul-21	108	65	37	19.82	36.45
29-Jul-21	101	57	30	14.83	28.42
30-Jul-21	117	59	39	16.96	29.32
06-Aug-21	110	59	24	9.92	17.14
07-Aug-21	91	51	27	13.67	25.47
12-Aug-21	103	62	29	13.76	23.72
13-Aug-21	109	65	26	11.25	22.97
20-Aug-21	114	65	35	15.44	29.96
21-Aug-21	122	79	39	18.89	27.93
26-Aug-21	109	75	32	19.52	39.44
27-Aug-21	105	68	29	15.93	37.85
03-Sep-21	97	59	30	9.63	17.47
04-Sep-21	108	63	28	15.46	22.94
10-Sep-21	125	79	33	9.77	26.85
11-Sep-21	145	81	37	14.56	22.73
17-Sep-21	93	56	25	13.18	27.16
18-Sep-21	101	60	23	18.44	24.62
24-Sep-21	126	72	35	14.18	29.94
25-Sep-21	154	83	39	12.32	18.61
30-Sep-21	142	87	24	18.07	26.23
01-Oct-21	104	63	33	14.14	36.31
08-Oct-21	124	77	36	11.66	34.65

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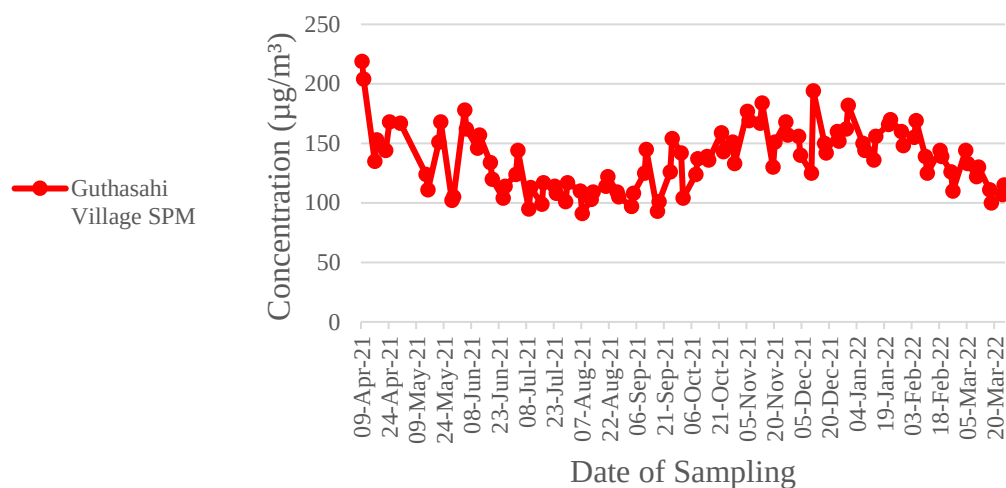
JOB NO.750001

09-Oct-21	137	84	40	17.33	32.06
14-Oct-21	139	76	39	13.81	31.91
15-Oct-21	136	74	36	10.08	27.84
22-Oct-21	159	94	46	11.28	33.88
23-Oct-21	143	86	43	8.25	28.74
28-Oct-21	151	89	47	15.81	25.33
29-Oct-21	133	73	40	9.19	26.42
05-Nov-21	177	92	51	12.59	30.10
06-Nov-21	169	90	49	15.88	22.09
12-Nov-21	167	88	50	17.08	32.39
13-Nov-21	184	94	53	13.61	26.80
19-Nov-21	130	71	39	14.81	25.73
20-Nov-21	151	77	42	11.99	18.85
26-Nov-21	168	86	49	15.51	24.86
27-Nov-21	157	84	51	17.79	23.71
03-Dec-21	156	88	45	20.63	37.85
04-Dec-21	140	90	42	24.86	32.38
10-Dec-21	125	96	38	20.68	28.90
11-Dec-21	194	140	40	17.33	37.76
17-Dec-21	150	83	44	18.71	30.99
18-Dec-21	142	80	42	19.68	33.86
24-Dec-21	160	93	43	17.20	27.35
25-Dec-21	152	78	40	14.36	27.72
29-Dec-21	162	89	48	18.22	26.49
30-Dec-21	182	88	42	17.24	39.04
07-Jan-22	150	80	32	19.59	24.00
08-Jan-22	144	75	30	19.98	28.31
13-Jan-22	136	84	35	22.68	28.22
14-Jan-22	156	90	40	13.34	24.69
21-Jan-22	166	82	28	15.95	22.52
22-Jan-22	170	90	35	17.79	25.85
28-Jan-22	160	77	45	20.42	23.16
29-Jan-22	148	85	32	20.29	23.99
04-Feb-22	155	87	40	16.55	32.51
05-Feb-22	169	90	45	14.49	36.81
10-Feb-22	139	78	36	21.11	27.07
11-Feb-22	125	70	33	17.60	29.47
18-Feb-22	144	88	30	10.45	30.58
19-Feb-22	139	80	35	9.02	30.61
24-Feb-22	126	75	32	19.39	30.26
25-Feb-22	110	70	30	16.31	28.68
04-Mar-22	144	75	33	21.27	28.62
05-Mar-22	133	60	30	16.33	29.20
10-Mar-22	122	58	22	21.74	27.43
11-Mar-22	130	65	28	20.63	26.25
17-Mar-22	111	55	20	16.55	37.25
18-Mar-22	100	50	20	11.28	19.36
24-Mar-22	107	63	27	17.28	28.39
25-Mar-22	115	70	31	13.69	22.36
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	219	140	53	29.58	56.65
Minimum	91	50	20	8	17
Average	136.80	75.60	36.54	17.60	31.38
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40

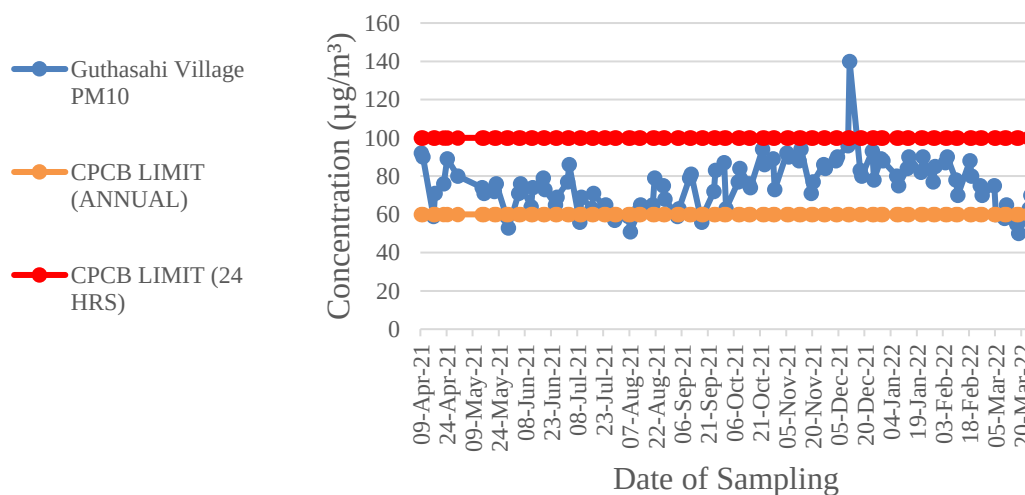
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JOB NO.750001

Graph Showing SPM for Ananta OCP



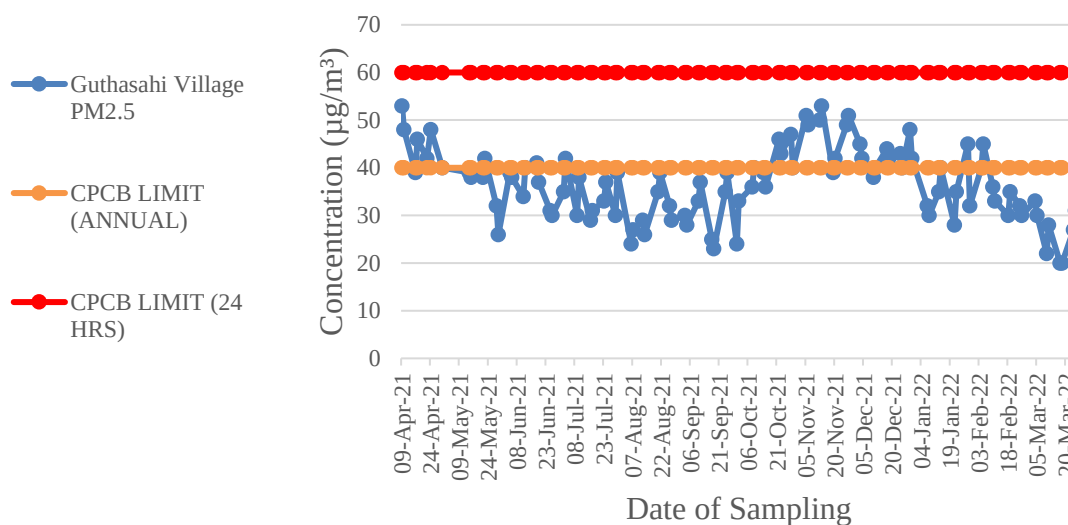
Graph Showing PM₁₀ for Ananta OCP



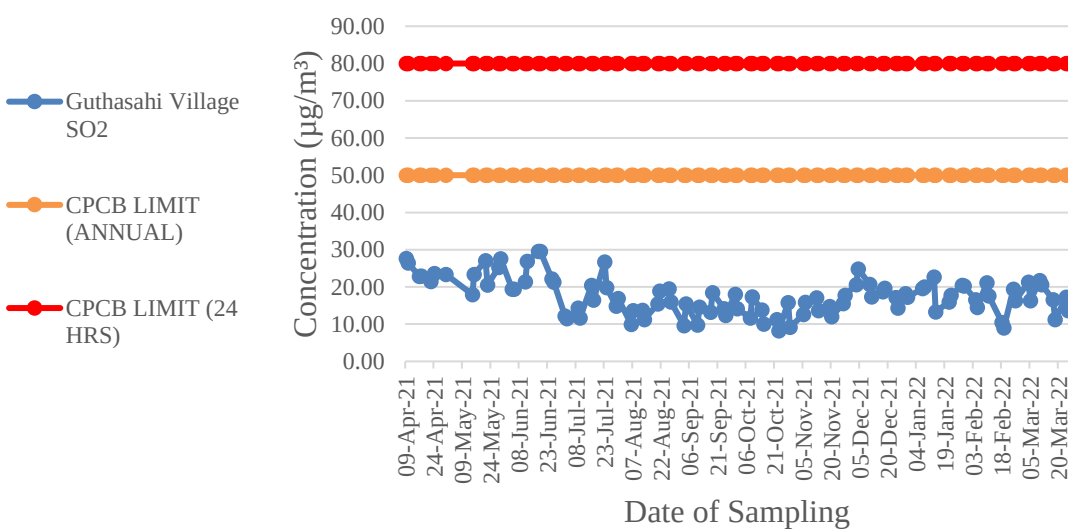
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JOB NO.750001

Graph Showing PM_{2.5} for Ananta OCP



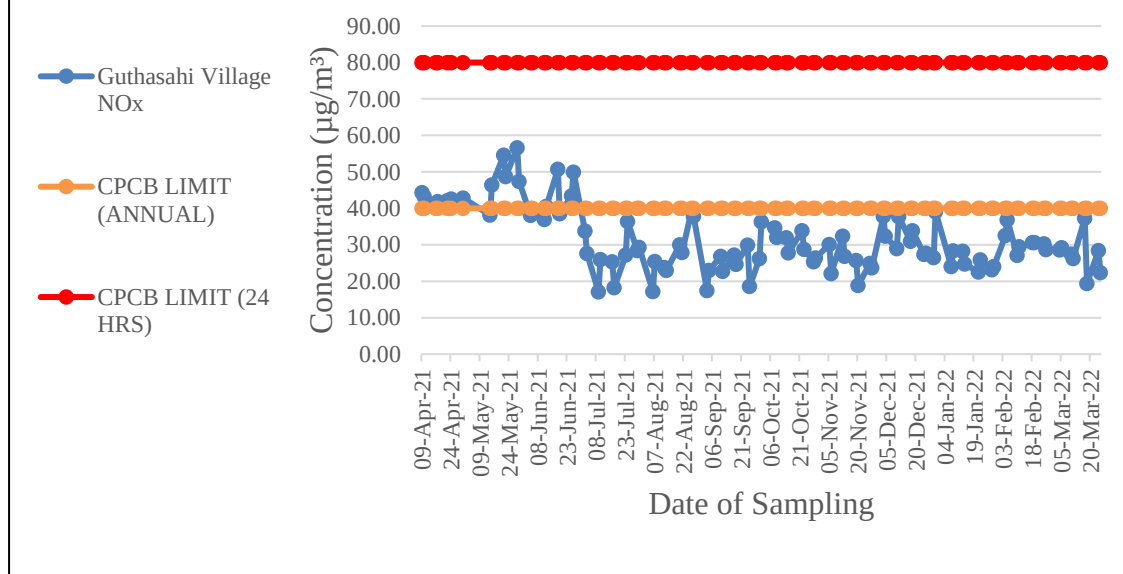
Graph Showing SO₂ for Ananta OCP



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Graph Showing NO_x for Ananta OCP



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JOB NO.750001

Table: 7.37
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Near Joragdia Village
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
09-Apr-21	227	81	50	22.68	40.84
10-Apr-21	191	70	46	21.54	38.47
16-Apr-21	142	74	42	16.89	33.70
17-Apr-21	157	73	48	17.57	34.16
23-Apr-21	183	82	44	18.62	35.74
24-Apr-21	154	90	38	17.84	34.39
30-Apr-21	174	92	49	18.37	35.51
07-May-21	149	78	41	16.49	22.36
08-May-21	136	73	39	13.81	30.23
14-May-21	118	68	36	19.49	35.10
15-May-21	105	65	35	18.01	46.24
21-May-21	103	58	30	23.99	33.60
22-May-21	131	69	33	21.75	39.06
28-May-21	121	74	37	35.32	43.29
29-May-21	105	63	31	25.56	36.00
04-Jun-21	120	64	35	30.95	49.03
05-Jun-21	128	60	33	21.97	42.25
11-Jun-21	155	65	41	23.97	43.45
12-Jun-21	131	74	44	18.69	41.59
18-Jun-21	140	87	40	16.78	45.18
19-Jun-21	116	75	39	19.62	33.02
25-Jun-21	111	68	33	19.13	35.50
26-Jun-21	104	52	29	16.98	33.98
02-Jul-21	127	74	40	12.30	24.89
03-Jul-21	129	85	35	18.19	24.90
09-Jul-21	111	69	37	13.81	18.41
10-Jul-21	107	66	32	18.92	27.59
16-Jul-21	120	71	38	18.37	36.74
17-Jul-21	132	63	31	10.15	21.14
23-Jul-21	113	70	30	28.10	28.10
24-Jul-21	97	61	26	21.34	28.25
29-Jul-21	103	67	30	26.10	32.63
30-Jul-21	149	92	31	16.33	30.92
06-Aug-21	95	44	26	13.60	23.26
07-Aug-21	107	51	28	15.67	27.01
12-Aug-21	102	56	23	12.76	22.08
13-Aug-21	126	68	24	14.54	22.62
20-Aug-21	102	67	29	17.37	35.47
21-Aug-21	131	80	36	21.60	26.26
26-Aug-21	106	63	22	14.94	36.80
27-Aug-21	119	74	28	19.06	36.79
03-Sep-21	113	67	26	11.53	19.95
04-Sep-21	102	55	29	18.43	20.05
10-Sep-21	121	66	31	14.09	26.13
11-Sep-21	137	75	34	15.93	21.48
17-Sep-21	129	69	26	15.68	28.10
18-Sep-21	139	73	23	13.80	30.33
24-Sep-21	150	77	36	15.74	23.74
25-Sep-21	161	84	43	13.72	34.90

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JOB NO.750001

30-Sep-21	120	70	24	15.14	16.17
01-Oct-21	119	83	41	17.34	29.23
08-Oct-21	128	69	39	14.03	31.43
09-Oct-21	133	80	45	14.06	25.68
14-Oct-21	153	81	43	17.00	32.16
15-Oct-21	113	68	37	10.66	20.01
22-Oct-21	148	89	47	10.31	37.27
23-Oct-21	158	82	45	11.10	35.45
28-Oct-21	137	77	46	9.64	25.98
29-Oct-21	153	85	49	16.19	28.95
05-Nov-21	176	94	53	15.09	25.64
06-Nov-21	161	88	50	15.12	32.56
12-Nov-21	139	77	40	15.74	19.76
13-Nov-21	151	84	44	19.04	26.52
19-Nov-21	135	78	41	13.11	35.99
20-Nov-21	143	81	44	14.09	19.07
26-Nov-21	163	88	49	16.83	27.01
27-Nov-21	151	91	47	12.27	22.64
03-Dec-21	128	86	50	25.40	26.33
04-Dec-21	188	80	22	17.89	29.91
10-Dec-21	132	78	49	20.59	28.45
11-Dec-21	129	83	48	25.98	27.10
17-Dec-21	231	83	51	19.39	38.31
18-Dec-21	176	86	59	18.56	28.58
24-Dec-21	160	86	52	10.49	33.92
25-Dec-21	152	88	59	16.43	29.74
29-Dec-21	166	75	45	14.12	25.56
30-Dec-21	182	88	43	12.99	32.02
07-Jan-22	147	76	33	21.86	26.29
08-Jan-22	148	87	29	18.22	26.29
13-Jan-22	133	76	26	13.74	23.72
14-Jan-22	165	93	32	18.80	31.30
21-Jan-22	166	88	31	10.54	37.60
22-Jan-22	155	90	37	20.84	26.38
28-Jan-22	143	80	35	25.82	23.53
29-Jan-22	155	97	40	19.52	30.38
04-Feb-22	145	70	22	19.69	29.64
05-Feb-22	135	75	29	19.76	25.21
10-Feb-22	145	84	22	21.71	27.10
11-Feb-22	130	88	26	14.88	29.24
18-Feb-22	126	68	32	10.08	35.52
19-Feb-22	120	65	30	9.32	26.09
24-Feb-22	105	63	28	10.95	34.07
25-Feb-22	99	60	24	10.34	27.15
04-Mar-22	144	85	27	20.16	25.60
05-Mar-22	124	74	23	19.03	25.62
10-Mar-22	127	83	30	19.83	30.58
11-Mar-22	120	77	34	15.79	29.58
17-Mar-22	115	67	31	20.90	27.89
18-Mar-22	126	70	29	14.26	22.38
24-Mar-22	145	84	33	11.23	19.36
25-Mar-22	145	63	30	14.25	23.98
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	231	97	59	35.32	49.03
Minimum	95	44	22	9	16
Average	136.80	75.28	36.26	17.31	29.97

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Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



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JOB NO.750001

Table: 7.38
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Natedi Village (Reported Only)
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
09-Apr-21	164	81	53	16.84	30.41
10-Apr-21	184	77	46	16.27	29.76
16-Apr-21	170	59	39	14.38	26.87
17-Apr-21	148	65	41	13.51	25.73
23-Apr-21	188	85	48	14.50	27.06
24-Apr-21	191	87	44	14.73	27.29
30-Apr-21	187	90	53	14.61	27.15
07-May-21	159	77	44	35.86	59.17
08-May-21	141	73	42	32.33	50.64
14-May-21	150	67	37	29.04	52.08
15-May-21	129	60	38	37.36	47.70
21-May-21	126	71	40	20.46	37.54
22-May-21	134	69	36	18.93	44.85
28-May-21	101	56	30	25.09	38.63
29-May-21	105	63	32	21.47	35.87
04-Jun-21	134	69	34	33.54	46.68
05-Jun-21	118	55	32	20.51	34.52
11-Jun-21	123	68	40	35.00	33.07
12-Jun-21	131	64	36	24.66	40.49
18-Jun-21	165	85	46	23.93	44.39
19-Jun-21	144	81	50	26.11	38.68
25-Jun-21	159	79	44	28.31	36.49
26-Jun-21	129	66	40	16.19	19.68
02-Jul-21	120	63	36	22.17	59.70
03-Jul-21	139	76	45	12.87	29.62
09-Jul-21	126	73	44	15.50	32.52
10-Jul-21	132	83	41	16.24	39.48
16-Jul-21	88	49	25	19.05	34.20
17-Jul-21	95	55	23	16.86	26.09
23-Jul-21	131	75	33	18.05	31.13
24-Jul-21	124	78	35	13.65	24.43
29-Jul-21	108	74	24	13.94	25.17
30-Jul-21	140	80	45	12.85	25.12
06-Aug-21	100	53	26	8.75	10.31
07-Aug-21	111	58	31	8.90	23.04
12-Aug-21	125	63	23	11.73	12.41
13-Aug-21	97	51	20	13.05	14.19
20-Aug-21	161	88	44	18.01	28.89
21-Aug-21	140	73	40	18.52	18.88
26-Aug-21	124	69	35	26.84	30.70
27-Aug-21	106	61	27	24.20	29.91
03-Sep-21	134	85	39	20.94	27.30
04-Sep-21	119	78	33	19.68	24.33
10-Sep-21	96	55	26	16.13	22.79

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11-Sep-21	110	61	28	16.99	26.73
17-Sep-21	92	52	27	19.35	23.93
18-Sep-21	105	64	31	13.02	23.24
24-Sep-21	133	86	45	17.55	27.35
25-Sep-21	149	91	47	11.06	29.18
29-Sep-21	139	88	46	11.62	19.05
30-Sep-21	93	57	24	20.30	29.72
01-Oct-21	116	66	30	19.12	28.89
08-Oct-21	137	85	44	16.74	31.42
09-Oct-21	147	81	42	18.63	26.64
14-Oct-21	149	86	44	12.74	29.07
15-Oct-21	133	71	38	14.49	28.83
22-Oct-21	144	79	44	10.35	25.91
23-Oct-21	155	84	46	12.21	25.93
28-Oct-21	146	91	52	9.00	17.70
29-Oct-21	159	86	50	12.63	18.97
05-Nov-21	132	77	40	19.01	31.77
06-Nov-21	124	70	38	20.86	34.80
12-Nov-21	146	83	44	17.73	26.17
13-Nov-21	155	86	47	18.64	20.77
19-Nov-21	169	83	47	11.50	22.63
20-Nov-21	161	88	51	14.70	22.39
26-Nov-21	173	91	53	11.70	21.60
27-Nov-21	158	85	49	15.00	25.48
03-Dec-21	121	86	45	21.29	33.34
04-Dec-21	135	98	55	23.48	37.06
10-Dec-21	152	55	31	19.40	36.86
11-Dec-21	136	77	54	18.99	42.87
17-Dec-21	166	73	48	14.78	35.66
18-Dec-21	122	80	42	21.86	21.79
24-Dec-21	168	79	44	16.75	24.37
25-Dec-21	152	78	46	13.44	22.14
29-Dec-21	171	81	47	14.30	25.01
30-Dec-21	166	84	45	16.19	36.66
07-Jan-22	135	77	33	21.17	39.32
08-Jan-22	145	85	36	23.16	40.68
13-Jan-22	192	90	32	20.11	36.72
14-Jan-22	141	82	37	22.25	33.90
21-Jan-22	145	83	30	22.03	26.93
22-Jan-22	155	72	38	19.55	21.38
28-Jan-22	166	96	39	20.15	40.87
29-Jan-22	177	100	47	22.13	34.55
04-Feb-22	130	80	26	19.39	30.13
05-Feb-22	122	74	20	22.09	28.21
10-Feb-22	133	77	36	18.44	26.60
11-Feb-22	109	67	30	18.67	30.14
18-Feb-22	132	69	30	9.65	18.50
19-Feb-22	145	77	35	14.45	21.15
24-Feb-22	133	63	26	11.60	20.76
25-Feb-22	122	60	22	14.75	24.28
04-Mar-22	166	90	34	13.02	31.89
05-Mar-22	148	78	30	19.05	27.55
10-Mar-22	150	83	33	14.39	30.04

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JOB NO.750001

11-Mar-22	133	74	26	24.17	28.41
17-Mar-22	123	63	23	16.39	32.26
18-Mar-22	134	70	25	12.05	19.03
24-Mar-22	128	74	35	14.08	21.37
25-Mar-22	121	68	30	12.38	22.39
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	192	100	55	37.36	59.7
Minimum	88	49	20	9	10
Average	138.19	74.72	37.81	18.16	29.86
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40

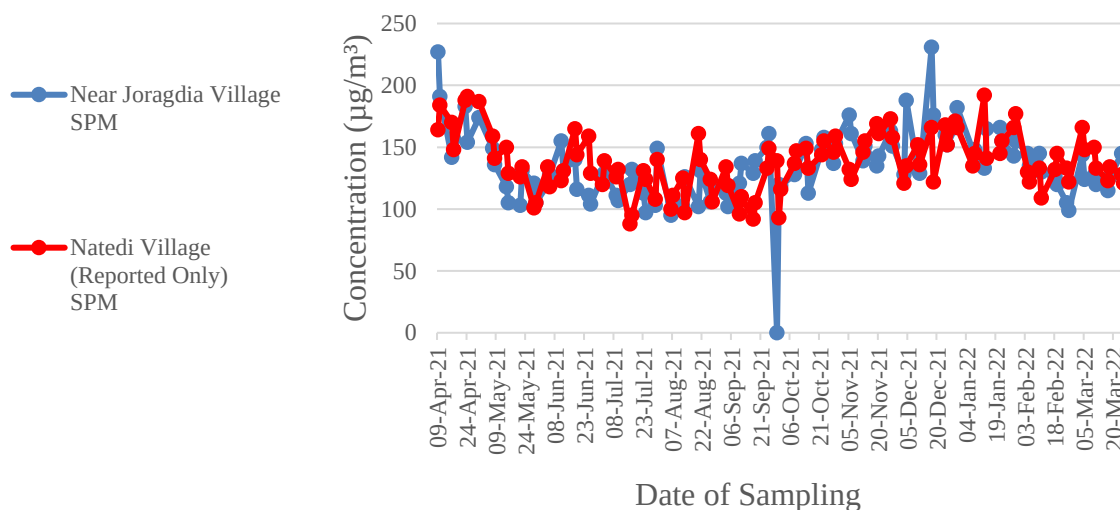


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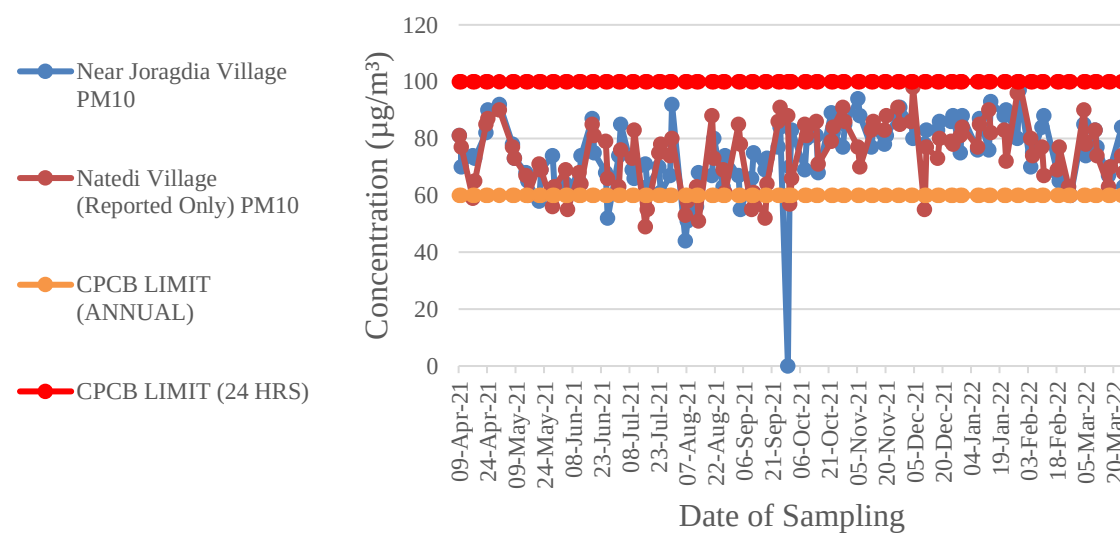
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Graph Showing SPM for Bharatpur OCP



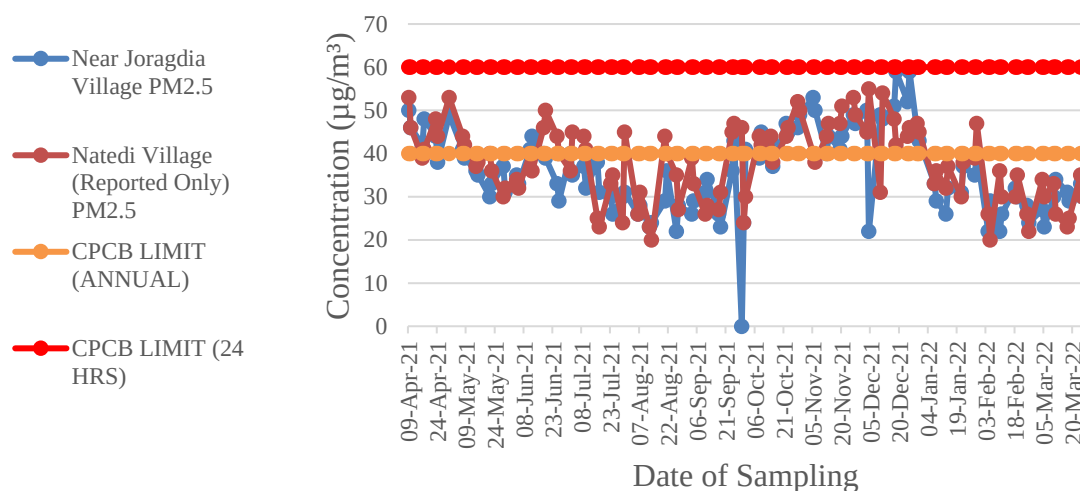
Graph Showing PM₁₀ for Bharatpur OCP



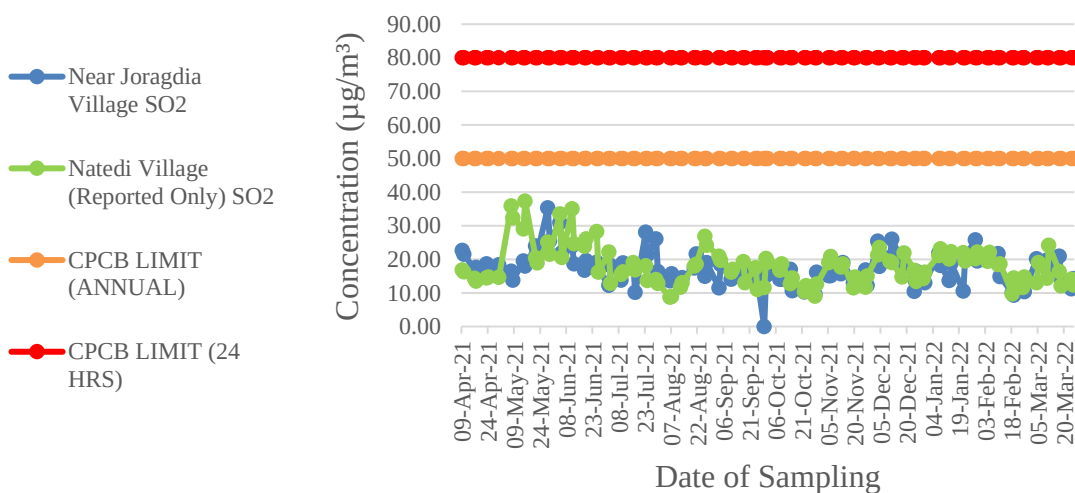
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JOB NO.750001

Graph Showing PM_{2.5} for Bharatpur OCP



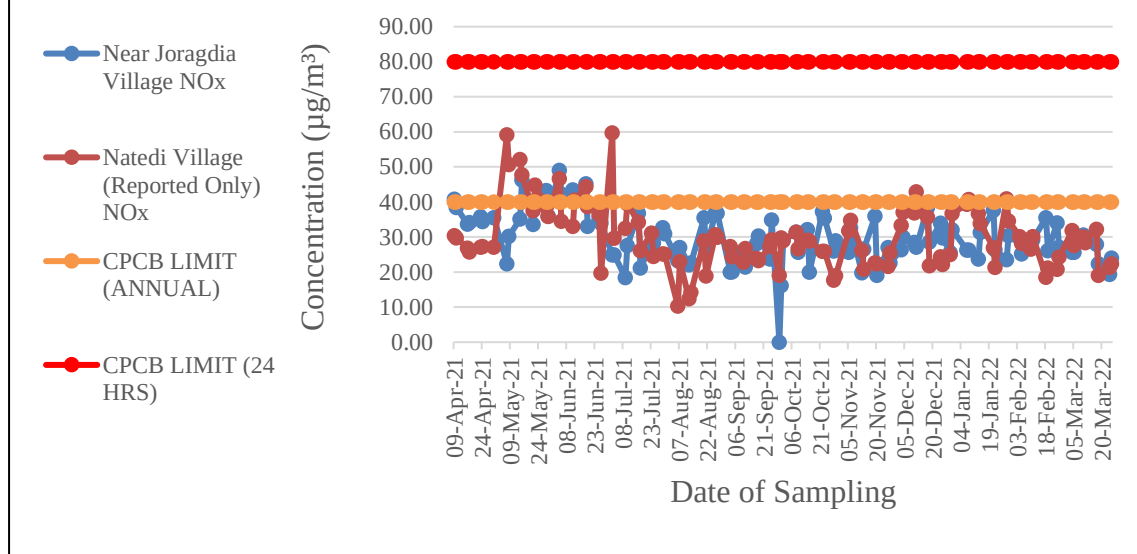
Graph Showing SO₂ for Bharatpur OCP



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Graph Showing NO_x for Bharatpur OCP



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Table: 7.39
Area: Bharatpur
Project: Chhendipada OCP
Monitoring Station: Security Post of Chhendipada OCP
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	S PM10	PM2.5	SO2	NOx
06-Apr-21	No Power Connection				
07-Apr-21	Strike				
13-Apr-21	213	92	53	21.42	39.32
14-Apr-21	Strike	Strike	Strike	Strike	Strike
19-Apr-21	181	76	41	19.63	38.46
20-Apr-21	214	87	54	20.83	39.57
26-Apr-21	175	86	51	19.23	37.94
27-Apr-21	203	90	52	20.41	39.28
20-Jul-21	105	58	33	18.81	29.11
26-Jul-21	125	72	39	16.14	22.00
27-Jul-21	133	82	42	16.05	24.32
02-Aug-21	121	70	30	15.41	20.71
03-Aug-21	109	61	26	14.70	25.36
09-Aug-21	93	54	28	12.78	22.96
10-Aug-21	107	63	25	9.60	19.97
16-Aug-21	116	71	33	15.25	31.72
17-Aug-21	106	69	28	14.19	27.91
23-Aug-21	169	87	37	22.58	48.70
24-Aug-21	147	81	40	22.01	39.67
30-Aug-21	148	79	34	19.59	25.60
31-Aug-21	167	84	40	17.67	25.56
06-Sep-21	142	88	39	14.99	18.53
07-Sep-21	123	78	38	10.56	23.65
13-Sep-21	139	74	41	15.68	21.80
14-Sep-21	114	65	35	10.86	21.82
20-Sep-21	111	63	29	17.18	25.10
21-Sep-21	124	73	33	34.53	53.83
27-Sep-21	147	79	37	9.74	20.65
28-Sep-21	127	66	35	13.84	31.53
05-Oct-21	131	79	44	19.22	26.73
06-Oct-21	123	74	39	17.22	24.86
11-Oct-21	122	53	31	12.60	28.84
12-Oct-21	128	58	32	12.62	27.85
19-Oct-21	112	69	33	12.42	16.28
20-Oct-21	126	73	36	12.46	16.32
25-Oct-21	137	83	44	14.03	20.56
26-Oct-21	154	88	46	12.00	18.43
01-Nov-21	129	76	41	14.29	26.80
02-Nov-21	145	89	44	17.35	22.55
08-Nov-21	151	84	47	18.51	24.35
09-Nov-21	143	81	46	9.84	23.52
17-Nov-21	133	79	40	11.59	23.18
22-Nov-21	141	76	44	14.15	19.89
23-Nov-21	153	81	46	11.72	27.09

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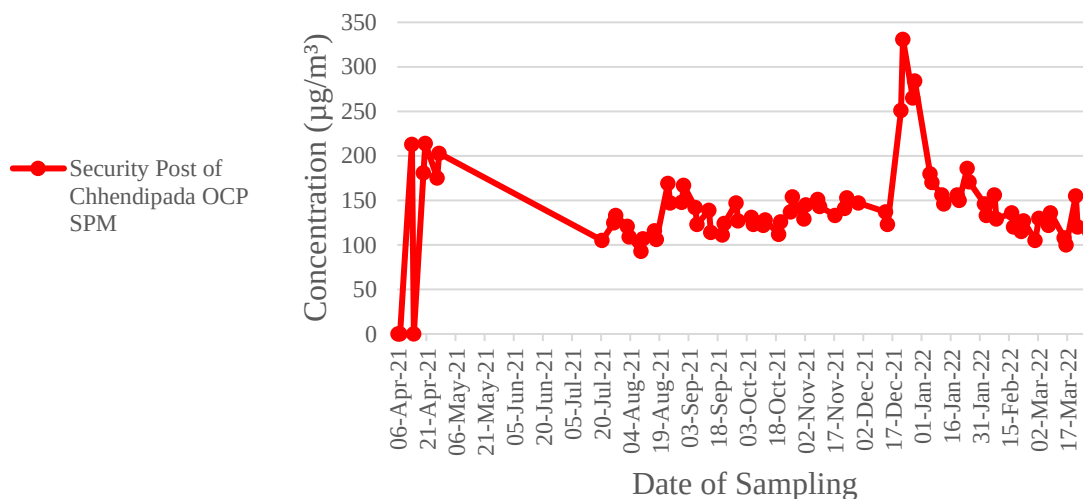
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29-Nov-21	147	86	49	16.09	28.29
13-Dec-21	137	78	33	22.33	27.34
14-Dec-21	123	89	39	19.45	30.92
21-Dec-21	251	81	54	15.81	36.23
22-Dec-21	331	160	40	13.87	31.71
27-Dec-21	265	170	60	14.80	35.80
28-Dec-21	284	178	51	10.73	22.08
05-Jan-22	180	80	36	15.22	32.46
06-Jan-22	170	98	40	19.44	30.00
11-Jan-22	156	84	33	18.27	29.00
12-Jan-22	146	90	39	21.53	30.90
19-Jan-22	156	78	31	23.79	22.70
20-Jan-22	150	81	38	19.87	29.55
24-Jan-22	186	97	35	18.55	34.81
25-Jan-22	171	82	40	20.01	22.70
02-Feb-22	146	84	35	19.56	21.53
03-Feb-22	133	71	30	15.27	22.43
07-Feb-22	156	94	41	16.08	26.70
08-Feb-22	129	78	32	15.41	24.19
16-Feb-22	136	83	36	16.29	28.37
17-Feb-22	120	74	32	15.77	20.15
21-Feb-22	115	70	30	16.26	23.21
22-Feb-22	127	77	34	16.41	24.56
28-Feb-22	105	67	31	11.03	21.85
02-Mar-22	130	73	21	22.32	22.01
07-Mar-22	122	79	39	17.07	26.03
08-Mar-22	136	84	33	20.31	29.82
15-Mar-22	108	70	26	21.49	22.29
16-Mar-22	100	65	23	16.34	18.15
21-Mar-22	155	57	22	17.23	24.30
22-Mar-22	120	68	27	11.02	19.32
28-Mar-22	115	60	25	11.75	19.03
29-Mar-22	129	65	30	11.03	23.01
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	331	178	60	34.53	53.83
Minimum	93	53	21	10	16
Average	146.24	80.30	37.18	16.41	26.81
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40

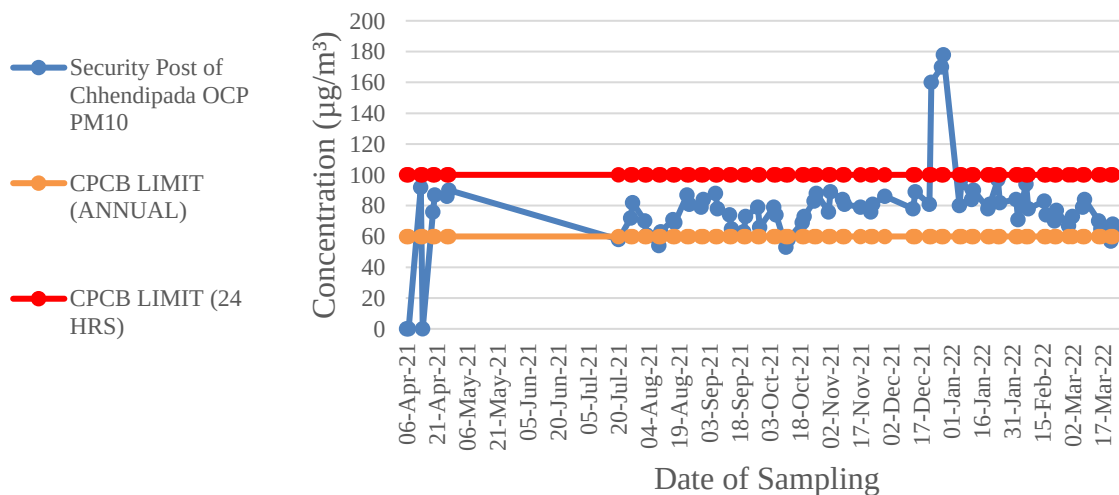
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Graph Showing SPM for Chhendipada OCP



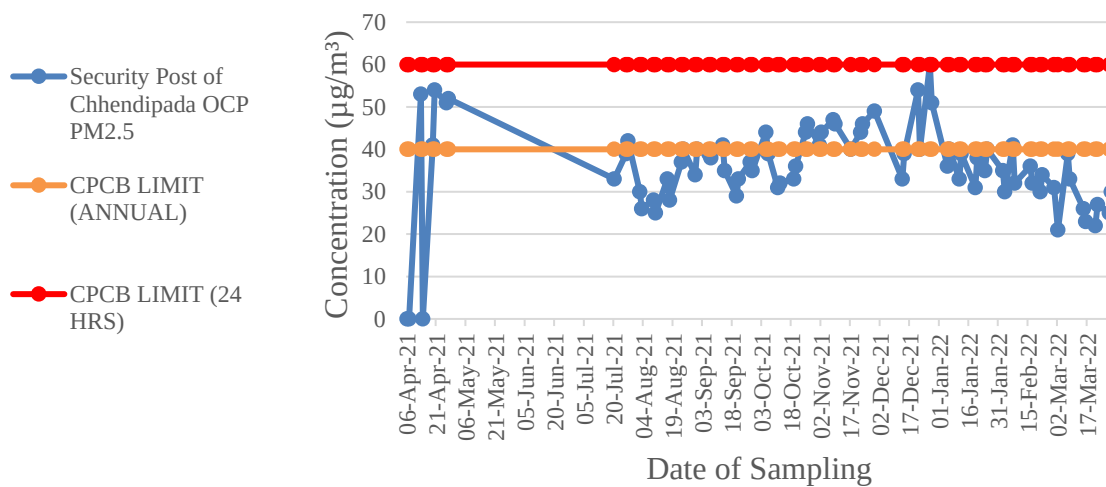
Graph Showing PM₁₀ for Chhendipada OCP



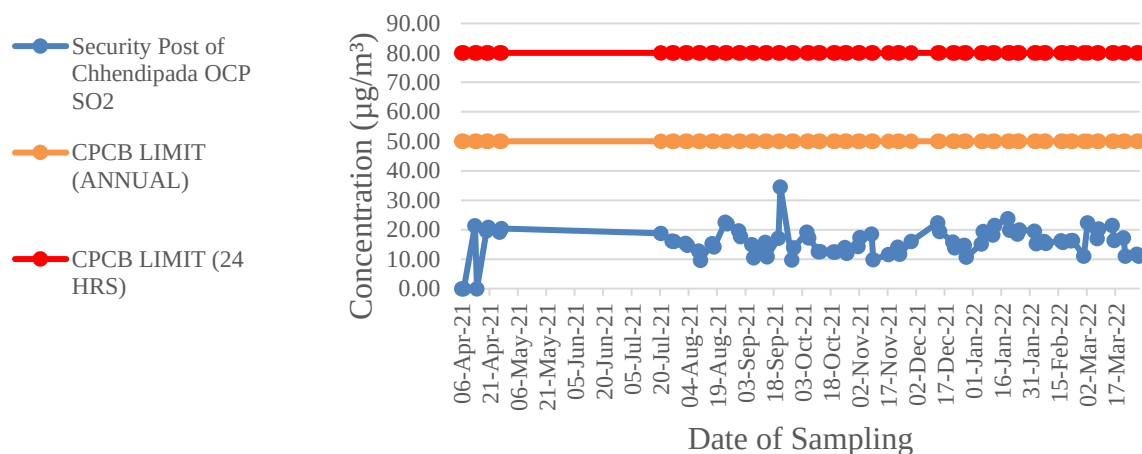
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Graph Showing PM_{2.5} for Chhendipada OCP

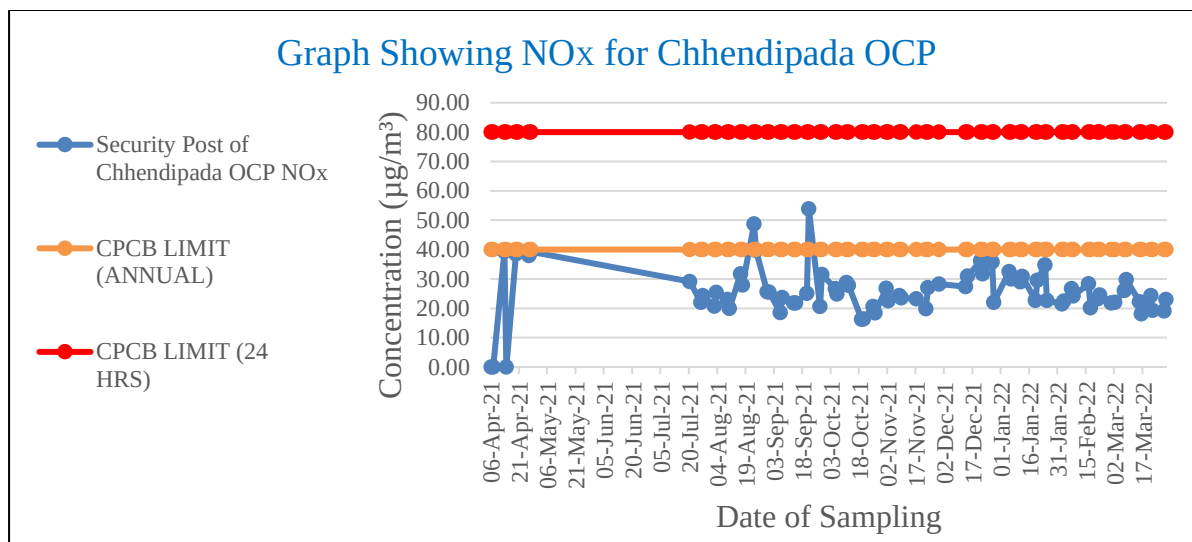


Graph Showing SO₂ for Chhendipada OCP



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Table: 7.40
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Near Kankili Community Centre
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
01-Apr-21	170	84	48	17.03	35.18
02-Apr-21	189	77	43	17.86	35.72
08-Apr-21	205	90	49	18.05	36.89
09-Apr-21	214	87	51	18.56	37.64
15-Apr-21	207	77	46	17.47	35.26
16-Apr-21	194	82	52	16.57	31.26
22-Apr-21	159	80	46	15.51	30.45
23-Apr-21	174	84	48	15.73	30.89
29-Apr-21	155	78	47	15.42	30.28
30-Apr-21	143	69	39	14.79	29.71
06-May-21	158	73	40	14.92	47.34
07-May-21	140	76	41	14.90	39.13
13-May-21	128	70	37	20.46	46.57
14-May-21	131	63	33	23.40	32.62
20-May-21	128	68	33	18.01	34.50
21-May-21	116	64	30	23.52	36.60
27-May-21	102	56	27	20.92	28.73
28-May-21	105	57	26	16.38	21.50
03-Jun-21	108	52	29	15.72	30.86
04-Jun-21	135	57	33	17.56	54.89
10-Jun-21	159	81	43	14.47	30.43
11-Jun-21	163	76	47	13.88	29.93
17-Jun-21	127	83	37	25.32	41.81
18-Jun-21	115	74	34	11.95	23.58
25-Jun-21	128	84	43	13.60	24.96
26-Jun-21	107	74	39	15.63	25.65
02-Jul-21	153	83	44	13.76	30.90
03-Jul-21	146	73	36	14.13	24.43
08-Jul-21	121	70	29	11.79	24.78
09-Jul-21	117	79	34	10.13	30.94
15-Jul-21	138	77	29	11.74	22.58
16-Jul-21	112	71	34	11.02	30.30
22-Jul-21	116	67	37	16.99	28.32
23-Jul-21	101	58	31	7.11	16.00
05-Aug-21	97	59	27	9.89	16.45
06-Aug-21	82	50	22	8.98	16.80
11-Aug-21	90	56	25	9.69	17.97
12-Aug-21	112	63	30	11.27	17.46
19-Aug-21	119	66	26	13.21	17.58
20-Aug-21	134	75	31	9.59	17.95
25-Aug-21	137	71	30	8.80	15.30
26-Aug-21	111	67	24	12.42	19.34
03-Sep-21	102	67	33	10.73	15.05
04-Sep-21	118	79	37	8.82	24.71

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08-Sep-21	131	84	41	11.73	21.03
09-Sep-21	149	89	34	12.27	25.28
17-Sep-21	96	52	26	10.88	20.00
18-Sep-21	110	63	30	7.57	18.72
22-Sep-21	118	74	36	10.09	15.94
23-Sep-21	103	59	33	14.57	20.18
29-Sep-21	102	60	32	12.34	21.59
01-Oct-21	109	66	32	14.50	23.96
08-Oct-21	129	73	36	12.63	19.24
09-Oct-21	143	81	38	14.94	21.57
13-Oct-21	97	63	31	10.18	22.04
14-Oct-21	109	69	36	11.50	20.35
21-Oct-21	91	59	30	12.19	20.12
22-Oct-21	115	68	36	14.33	22.08
27-Oct-21	111	74	40	10.25	22.63
28-Oct-21	128	80	37	9.41	14.39
04-Nov-21	87	59	37	13.99	18.27
05-Nov-21	107	71	40	13.80	19.22
11-Nov-21	109	68	41	14.39	23.15
12-Nov-21	121	76	44	11.47	14.82
18-Nov-21	112	67	38	9.05	19.40
19-Nov-21	125	73	40	9.48	19.22
25-Nov-21	136	79	44	8.20	20.88
26-Nov-21	129	82	41	10.01	18.30
02-Dec-21	132	51	26	17.66	36.54
03-Dec-21	129	40	25	19.16	24.26
09-Dec-21	180	60	30	14.21	21.34
10-Dec-21	110	74	33	16.51	28.61
16-Dec-21	152	84	42	11.40	33.33
17-Dec-21	144	69	34	12.48	30.90
23-Dec-21	181	99	43	10.59	34.40
24-Dec-21	136	82	36	11.89	23.67
29-Dec-21	142	78	41	13.50	21.38
30-Dec-21	150	86	46	16.72	22.26
06-Jan-22	130	77	29	15.91	18.12
07-Jan-22	140	80	33	12.58	21.05
13-Jan-22	155	86	32	15.89	22.80
14-Jan-22	163	90	34	17.86	20.79
20-Jan-22	145	86	34	9.55	18.80
21-Jan-22	123	70	27	10.60	25.51
28-Jan-22	169	80	40	13.69	22.17
29-Jan-22	147	98	37	16.61	24.53
03-Feb-22	145	77	33	11.72	29.40
04-Feb-22	139	84	36	14.89	32.23
10-Feb-22	120	70	30	13.25	29.96
11-Feb-22	109	65	28	15.26	19.85
17-Feb-22	134	72	40	15.54	23.32
18-Feb-22	126	68	33	9.82	21.14
24-Feb-22	146	82	37	10.36	15.44
25-Feb-22	162	89	42	9.51	23.20
03-Mar-22	122	75	33	12.27	24.92
04-Mar-22	105	65	30	13.42	22.45
10-Mar-22	96	57	26	12.90	20.12

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11-Mar-22	113	69	29	16.95	32.17
16-Mar-22	102	72	34	11.71	28.68
17-Mar-22	139	70	25	12.39	18.26
24-Mar-22	144	78	28	15.23	28.02
25-Mar-22	133	68	20	14.02	23.06
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	214	99	52	25.32	54.89
Minimum	82	40	20	7	14
Average	131.33	72.42	35.28	13.66	25.43
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40

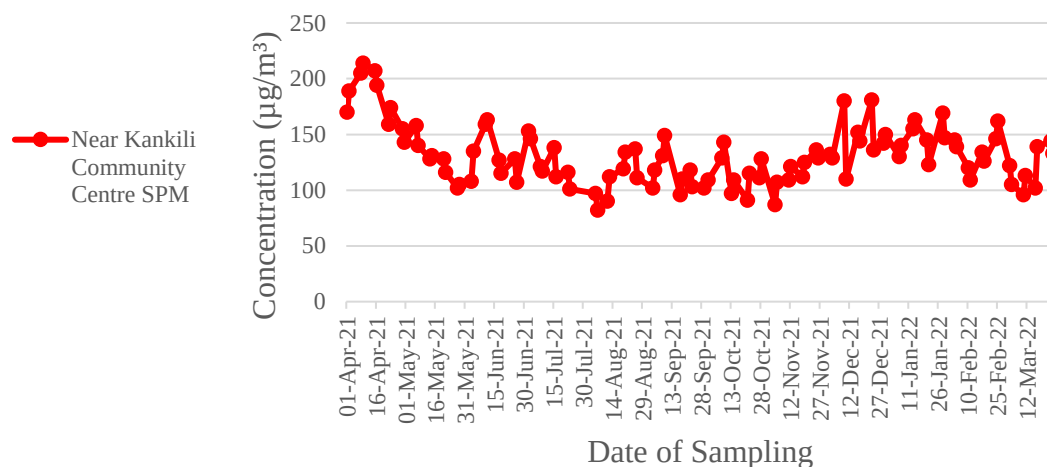


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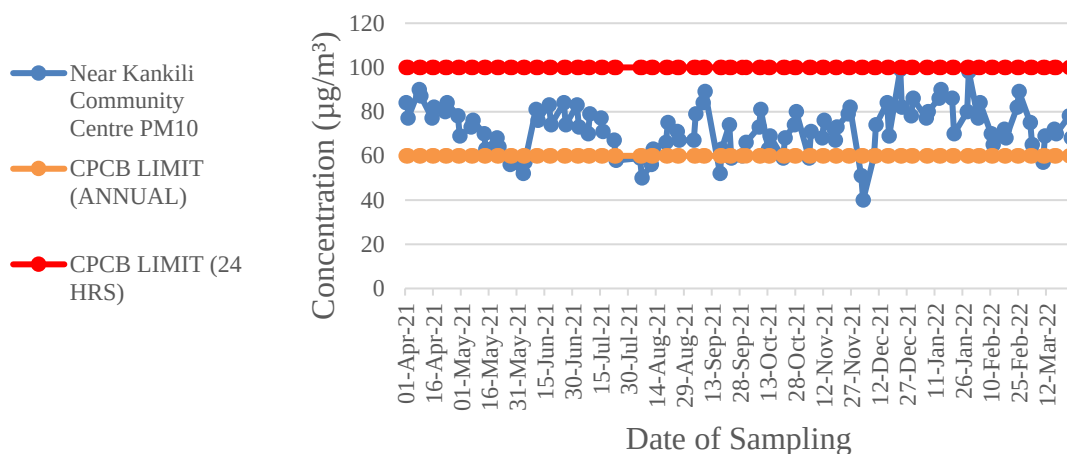
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Graph Showing SPM for Lingaraj OCP



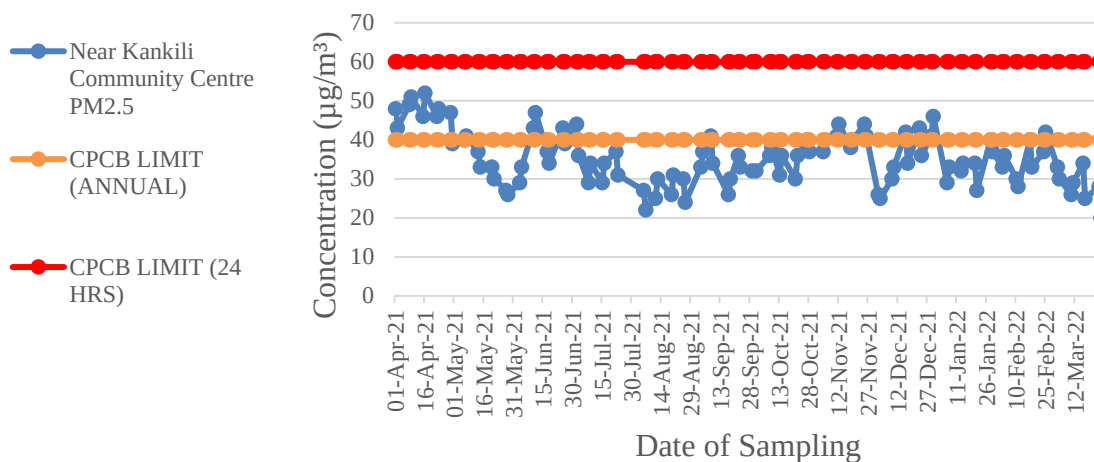
Graph Showing PM₁₀ for Lingaraj OCP



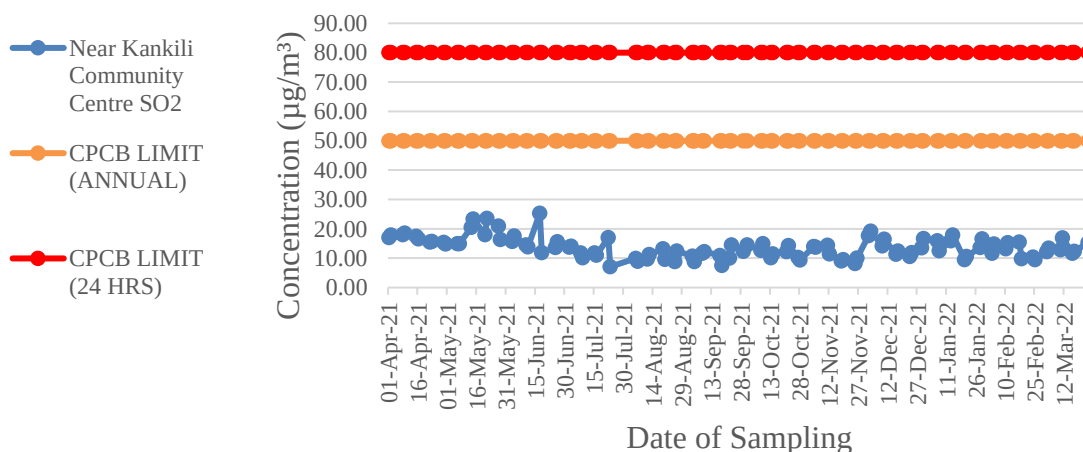
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JOB NO.750001

Graph Showing PM_{2.5} for Lingaraj OCP

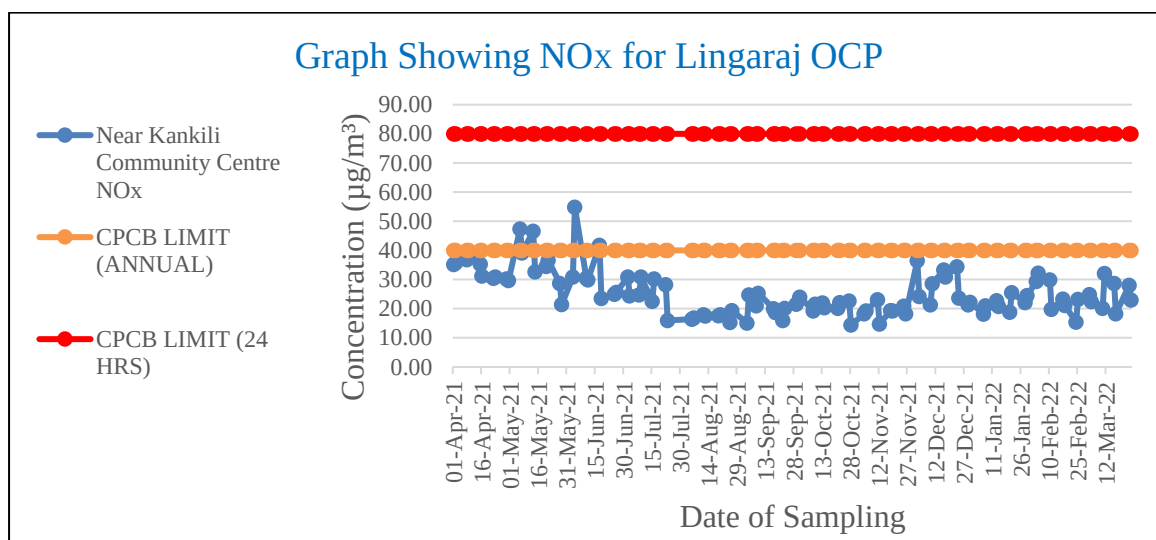


Graph Showing SO₂ for Lingaraj OCP



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JOB NO.750001

Table: 7.41
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: South of Proposed Quarry Limit of KOCP

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
02-Apr-21	204	83	53	19.23	40.82
03-Apr-21	177	75	49	18.27	39.45
07-Apr-21	Strike				
08-Apr-21	Strike				
14-Apr-21	207	93	51	19.58	40.36
15-Apr-21	216	80	50	20.16	41.37
20-Apr-21	205	83	47	17.32	33.27
21-Apr-21	219	91	53	17.51	33.49
28-Apr-21	195	76	45	16.75	32.58
29-Apr-21	183	81	48	16.48	32.36
04-May-21	149	79	44	13.22	34.40
05-May-21	137	73	46	23.59	25.70
12-May-21	117	68	41	28.15	65.31
13-May-21	113	64	39	46.69	56.02
18-May-21	117	71	37	29.89	47.78
19-May-21	127	75	39	30.01	38.92
26-May-21	119	68	31	35.48	47.21
27-May-21	110	64	28	27.20	45.36
31-May-21	102	57	30	26.96	34.68
01-Jun-21	158	77	39	21.30	46.60
09-Jun-21	158	82	47	15.63	27.77
10-Jun-21	173	79	43	22.40	29.22
14-Jun-21	168	94	50	15.69	33.96
15-Jun-21	131	79	45	27.06	48.58
23-Jun-21	148	83	50	26.88	45.24
24-Jun-21	132	66	47	22.30	39.56
28-Jun-21	122	73	40	30.14	49.71
29-Jun-21	127	70	38	33.96	43.97
07-Jul-21	139	89	49	10.65	28.39
08-Jul-21	148	80	50	10.64	19.94
13-Jul-21	99	57	39	17.13	32.36
14-Jul-21	124	65	35	10.30	19.62
20-Jul-21	118	69	33	19.21	37.36
21-Jul-21	122	83	36	16.84	34.17
27-Jul-21	109	71	35	14.38	28.14
28-Jul-21	97	57	31	18.50	32.07
03-Aug-21	113	71	29	14.63	24.34
04-Aug-21	110	76	29	9.45	20.70
10-Aug-21	110	62	24	12.08	18.55
11-Aug-21	114	50	27	10.95	12.90
17-Aug-21	104	56	29	16.08	34.89
18-Aug-21	126	73	38	22.43	34.85
24-Aug-21	115	77	33	19.29	27.91
25-Aug-21	135	85	39	23.55	39.19
30-Aug-21	156	88	32	15.50	23.63
31-Aug-21	169	92	38	20.09	34.82
06-Sep-21	156	84	43	17.83	25.64
07-Sep-21	143	71	39	13.50	20.02

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JOB NO.750001

13-Sep-21	103	56	26	18.38	29.35
14-Sep-21	124	67	30	18.23	17.68
20-Sep-21	119	66	34	14.01	24.51
21-Sep-21	127	73	37	12.36	22.70
27-Sep-21	145	83	42	15.07	24.56
28-Sep-21	161	90	47	16.97	25.54
04-Oct-21	143	81	40	14.52	33.62
05-Oct-21	129	76	37	15.21	28.10
11-Oct-21	158	89	46	15.87	21.89
12-Oct-21	155	87	45	15.43	20.89
18-Oct-21	160	88	43	9.37	20.10
19-Oct-21	166	83	47	12.14	23.63
25-Oct-21	176	90	49	11.82	26.90
26-Oct-21	182	93	51	9.98	24.14
01-Nov-21	136	77	40	20.43	26.41
02-Nov-21	129	71	37	14.78	24.72
08-Nov-21	147	82	43	14.79	28.80
09-Nov-21	167	89	47	13.22	26.69
16-Nov-21	151	76	43	14.69	25.10
17-Nov-21	158	71	45	12.97	33.80
22-Nov-21	148	86	49	12.50	21.10
23-Nov-21	162	93	53	13.86	19.13
29-Nov-21	149	90	51	12.76	26.78
07-Dec-21	137	99	33	20.87	33.72
13-Dec-21	216	88	44	18.07	38.46
14-Dec-21	194	100	36	25.61	29.49
20-Dec-21	198	85	52	19.28	27.14
21-Dec-21	136	88	54	13.92	28.77
27-Dec-21	131	76	55	10.14	35.79
28-Dec-21	166	83	50	15.82	25.58
03-Jan-22	165	78	34	20.61	28.33
04-Jan-22	153	96	32	15.58	30.67
11-Jan-22	162	84	36	21.08	31.92
12-Jan-22	176	79	30	24.85	30.36
17-Jan-22	133	88	30	18.47	32.69
18-Jan-22	143	75	38	22.33	29.54
24-Jan-22	150	80	44	17.27	27.40
25-Jan-22	146	87	51	25.84	27.73
01-Feb-22	140	99	40	22.39	31.08
02-Feb-22	132	84	36	13.53	35.23
07-Feb-22	140	80	23	14.24	39.12
08-Feb-22	122	74	30	15.28	29.58
15-Feb-22	135	88	40	13.41	25.44
16-Feb-22	119	75	34	12.27	27.21
21-Feb-22	105	60	29	11.87	27.98
22-Feb-22	128	65	33	11.06	26.06
28-Feb-22	160	74	36	12.69	18.05
01-Mar-22	102	66	25	21.63	28.47
07-Mar-22	122	73	38	18.92	24.03
08-Mar-22	118	68	33	21.56	29.03
14-Mar-22	105	57	23	18.62	28.71
15-Mar-22	119	70	21	18.39	24.95
21-Mar-22	150	84	35	11.24	21.04
22-Mar-22	132	74	32	17.25	26.39
28-Mar-22	122	65	25	12.32	24.36
29-Mar-22	125	60	20	11.25	25.27
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX

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Maximum	219	100	55	46.69	65.31
Minimum	97	50	20	9	13
Average	143.12	77.44	39.14	17.96	30.68
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40

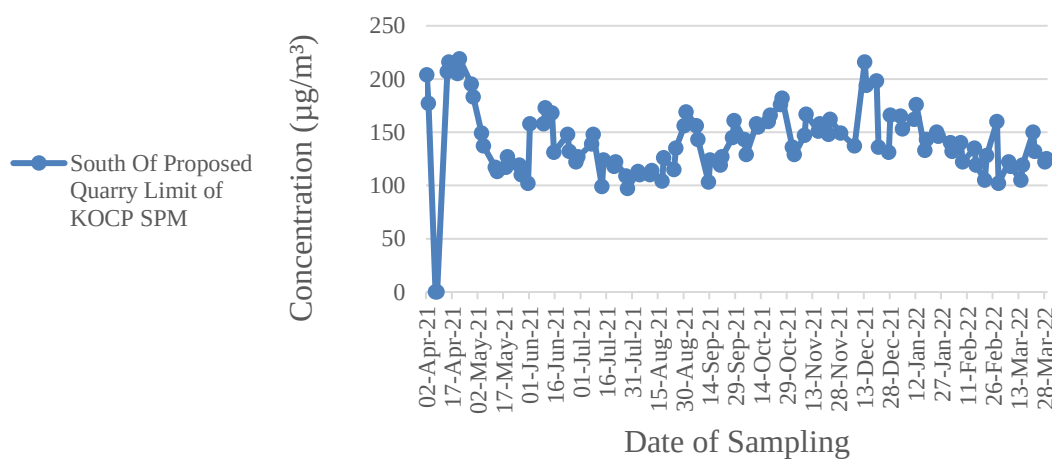


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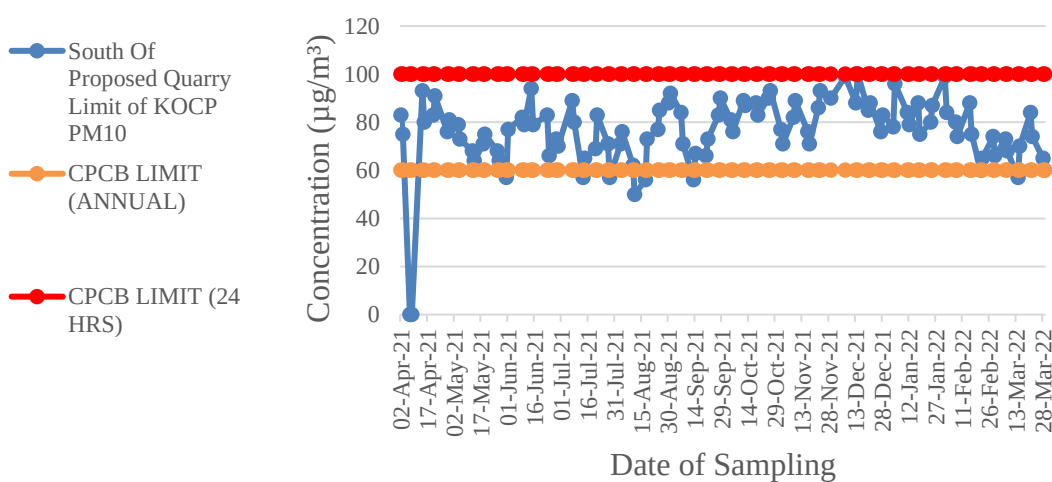
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Graph Showing SPM for Kaniha OCP



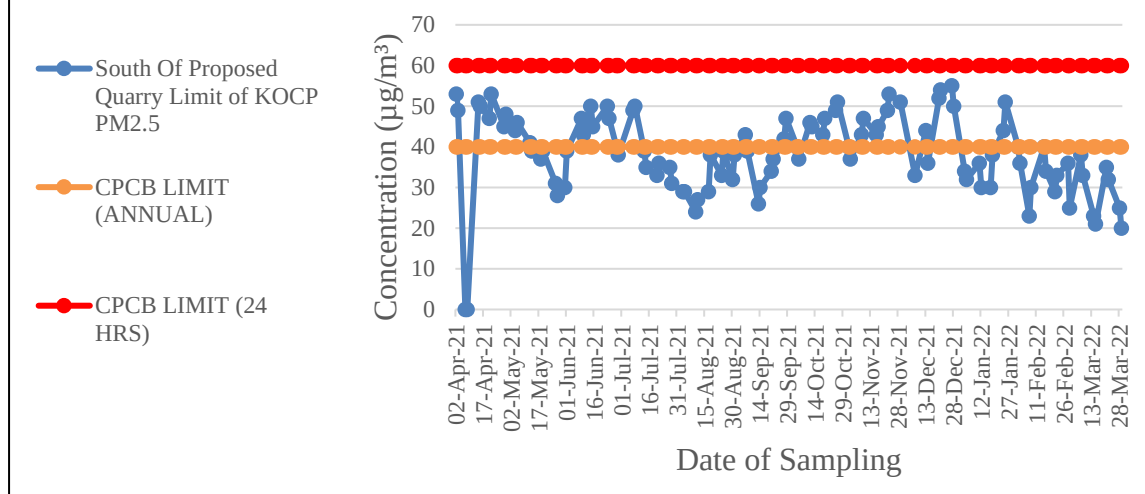
Graph Showing PM₁₀ for Kaniha OCP



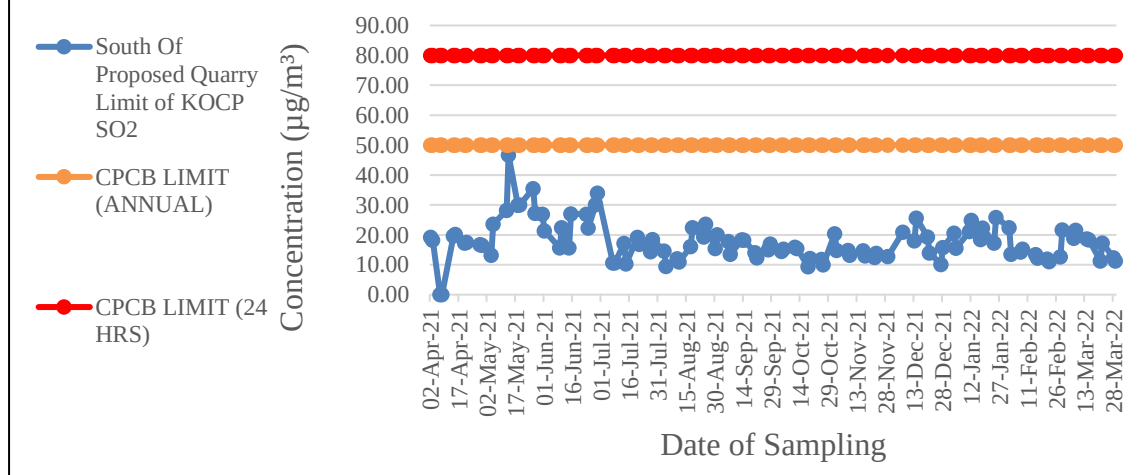
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Graph Showing PM_{2.5} for Kaniha OCP

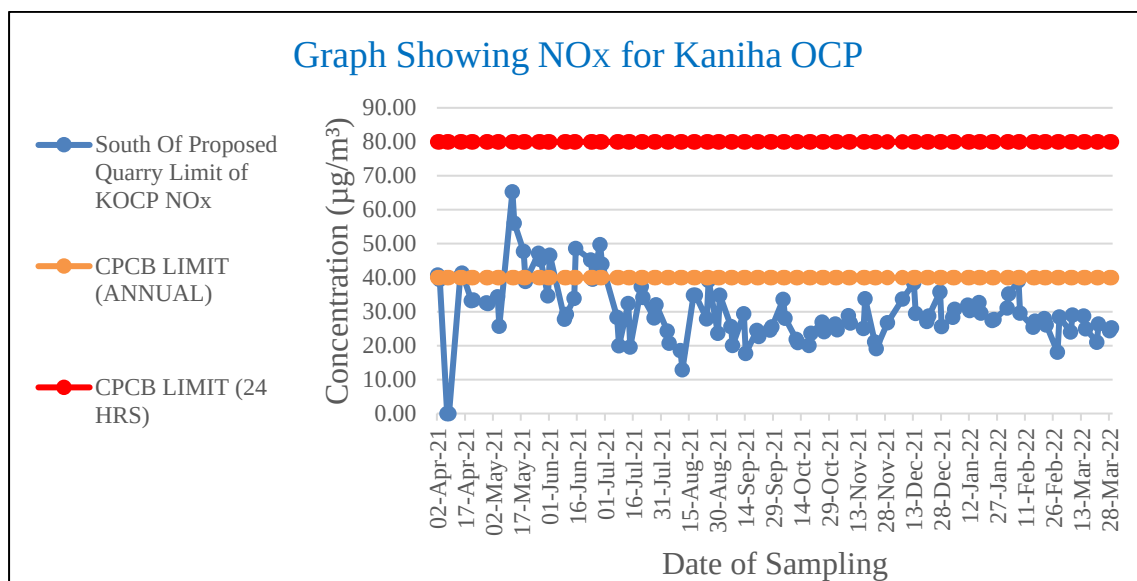


Graph Showing SO₂ for Kaniha OCP



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JOB NO.750001

Table: 7.42
Area: Hingula
Project: Hingula OCP
Monitoring Station: North East of the Mine, Solda Village

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
01-Apr-21	206	81	44	16.79	31.18
02-Apr-21	219	86	53	17.46	32.91
09-Apr-21	203	78	47	16.54	30.75
10-Apr-21	217	91	51	17.13	31.46
16-Apr-21	186	84	49	14.62	27.61
17-Apr-21	169	86	53	14.15	27.08
23-Apr-21	141	64	44	13.30	26.49
24-Apr-21	176	89	54	14.38	27.26
30-Apr-21	151	71	41	13.17	26.28
07-May-21	145	62	39	30.01	61.73
08-May-21	153	70	43	39.50	44.26
14-May-21	150	79	41	31.75	52.94
15-May-21	139	76	37	33.73	70.42
21-May-21	121	62	38	20.83	46.50
22-May-21	136	66	34	28.61	60.54
28-May-21	121	60	32	29.41	42.04
29-May-21	105	53	28	24.12	47.13
04-Jun-21	107	53	28	20.03	54.37
05-Jun-21	124	58	31	20.93	44.04
11-Jun-21	145	66	38	18.94	47.26
12-Jun-21	160	81	43	24.92	55.11
18-Jun-21	153	87	43	24.03	35.16
19-Jun-21	140	89	49	26.32	39.59
25-Jun-21	129	66	37	25.46	31.31
26-Jun-21	125	67	41	23.12	32.66
02-Jul-21	98	58	38	10.75	14.93
03-Jul-21	117	69	26	16.67	32.41
09-Jul-21	107	60	32	20.12	38.57
10-Jul-21	133	74	43	12.27	24.16
16-Jul-21	125	74	38	15.00	15.52
17-Jul-21	129	82	42	23.21	29.75
23-Jul-21	108	64	35	14.46	22.17
24-Jul-21	113	76	27	16.26	21.30
29-Jul-21	108	67	30	12.61	27.33
30-Jul-21	117	52	27	17.50	13.72
06-Aug-21	139	85	37	13.00	16.99
07-Aug-21	131	77	33	11.87	18.93
12-Aug-21	105	59	29	14.07	24.24
13-Aug-21	96	42	22	13.07	15.40
19-Aug-21	161	91	33	14.45	20.94
20-Aug-21	169	82	37	14.33	23.84
21-Aug-21	150	72	35	23.97	33.75
26-Aug-21	128	77	29	22.34	28.43
27-Aug-21	109	69	27	33.41	43.23
03-Sep-21	89	50	23	19.48	31.10
04-Sep-21	95	59	29	14.40	18.69
10-Sep-21	99	69	28	15.07	19.99
11-Sep-21	124	81	34	17.43	25.86

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JOB NO.750001

17-Sep-21	107	59	33	10.68	20.15
18-Sep-21	111	71	39	18.06	25.65
24-Sep-21	163	89	49	14.51	20.62
25-Sep-21	146	82	43	22.69	23.21
30-Sep-21	167	94	54	18.31	22.92
01-Oct-21	117	56	36	14.64	38.58
08-Oct-21	133	80	45	21.52	30.65
09-Oct-21	139	85	42	13.50	34.74
14-Oct-21	121	73	37	14.35	34.08
15-Oct-21	135	77	39	14.48	19.93
22-Oct-21	141	75	38	12.18	20.01
23-Oct-21	156	82	42	12.51	22.11
28-Oct-21	178	90	47	10.39	28.90
05-Nov-21	139	78	43	17.48	24.08
06-Nov-21	124	79	47	20.94	20.96
12-Nov-21	143	85	48	14.71	26.71
13-Nov-21	166	93	53	17.81	29.80
19-Nov-21	133	69	44	12.67	32.25
20-Nov-21	148	74	41	16.05	23.18
26-Nov-21	171	89	48	13.81	25.03
27-Nov-21	157	84	51	15.09	21.74
03-Dec-21	153	57	30	19.58	36.25
04-Dec-21	121	55	30	22.69	20.73
10-Dec-21	146	66	44	15.61	26.07
11-Dec-21	151	59	48	19.72	30.75
17-Dec-21	136	80	40	12.38	28.42
18-Dec-21	169	89	45	13.64	37.28
24-Dec-21	170	98	46	17.58	36.97
25-Dec-21	156	97	43	17.19	27.00
29-Dec-21	160	94	44	19.24	33.40
30-Dec-21	160	83	54	22.40	28.82
07-Jan-22	184	82	40	19.52	35.65
08-Jan-22	163	91	35	18.05	25.88
13-Jan-22	165	94	40	15.63	30.61
14-Jan-22	144	72	30	14.82	27.64
21-Jan-22	143	78	33	24.94	36.18
22-Jan-22	145	96	35	18.06	26.94
28-Jan-22	188	80	45	17.75	26.56
29-Jan-22	149	79	48	20.91	35.29
04-Feb-22	132	88	36	18.88	21.07
05-Feb-22	145	81	30	23.03	19.39
10-Feb-22	126	77	25	15.32	26.53
11-Feb-22	115	70	20	20.36	24.30
18-Feb-22	124	62	33	9.29	25.18
19-Feb-22	154	88	40	15.44	22.25
24-Feb-22	133	65	25	14.07	22.88
25-Feb-22	145	70	29	14.36	27.83
04-Mar-22	155	89	36	21.97	32.50
05-Mar-22	160	93	39	19.45	24.17
10-Mar-22	140	83	27	21.39	28.66
11-Mar-22	124	71	23	15.36	31.99
17-Mar-22	115	65	20	18.88	32.28
18-Mar-22	128	73	25	9.36	17.28
24-Mar-22	111	68	23	11.09	23.01
25-Mar-22	126	82	30	15.23	24.58
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	219	98	54	39.5	70.42

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JOB NO.750001

Minimum	89	42	20	9	14
Average	140.80	75.27	37.69	18.10	29.97
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



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JOB NO.750001

Table: 7.43
Area: Hingula
Project: Hingula OCP
Monitoring Station: North of the Mine, Purnapi, Kumunda Village

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
01-Apr-21	161	77	47	18.25	35.41
02-Apr-21	190	82	50	19.06	37.14
08-Apr-21	201	91	53	19.47	37.52
09-Apr-21	187	80	45	18.94	36.47
15-Apr-21	179	95	50	18.13	35.94
16-Apr-21	143	69	39	15.25	30.14
22-Apr-21	160	74	43	15.49	30.67
23-Apr-21	182	83	49	16.27	31.48
29-Apr-21	223	94	54	17.31	32.49
30-Apr-21	193	91	50	16.58	31.64
06-May-21	142	78	43	17.72	31.78
07-May-21	126	75	40	26.04	31.00
13-May-21	107	68	38	26.33	47.15
14-May-21	116	73	39	28.81	40.98
20-May-21	127	73	36	23.85	41.75
21-May-21	114	69	34	29.57	54.30
27-May-21	98	59	31	28.07	48.23
28-May-21	106	57	30	29.11	40.04
03-Jun-21	169	78	50	19.26	34.44
04-Jun-21	176	81	47	15.22	30.74
10-Jun-21	117	71	40	14.68	41.17
11-Jun-21	137	76	44	26.58	46.60
17-Jun-21	134	81	43	19.58	26.36
18-Jun-21	145	89	39	19.11	36.28
25-Jun-21	110	61	30	21.29	37.29
26-Jun-21	116	68	37	15.66	30.41
02-Jul-21	112	73	35	17.09	30.16
08-Jul-21	127	80	40	9.67	17.35
09-Jul-21	134	88	34	11.95	20.68
15-Jul-21	126	77	34	8.63	21.22
16-Jul-21	130	81	33	13.60	39.67
17-Jul-21	121	69	39	16.46	30.86
22-Jul-21	95	59	29	17.42	34.21
23-Jul-21	109	67	33	13.69	24.88
28-Jul-21	94	53	26	14.28	28.34
29-Jul-21	101	60	31	26.00	31.38
06-Aug-21	101	45	23	8.32	21.62
07-Aug-21	118	53	28	12.10	17.61
11-Aug-21	127	73	32	9.68	17.58
12-Aug-21	115	67	29	13.06	14.49
20-Aug-21	140	86	36	22.09	35.49
21-Aug-21	121	77	29	29.90	41.46
25-Aug-21	126	70	26	13.83	27.93
26-Aug-21	108	67	31	22.88	36.79
03-Sep-21	102	63	31	15.59	29.37
04-Sep-21	117	69	37	11.60	21.08
08-Sep-21	109	53	27	12.55	18.17
09-Sep-21	125	67	33	12.97	20.62

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JOB NO.750001

17-Sep-21	114	61	35	14.88	21.46
18-Sep-21	104	57	32	13.01	24.51
22-Sep-21	139	85	45	15.99	23.25
23-Sep-21	149	87	48	12.35	18.33
30-Sep-21	150	90	39	17.25	20.05
12-Oct-21	121	73	39	15.86	22.48
13-Oct-21	124	71	38	12.36	20.17
14-Oct-21	140	81	43	9.76	27.47
21-Oct-21	155	81	46	10.38	15.15
27-Oct-21	176	92	53	13.30	17.37
28-Oct-21	160	88	49	11.62	19.40
29-Oct-21	167	94	50	10.08	21.29
04-Nov-21	158	80	42	14.71	19.21
05-Nov-21	169	86	50	15.50	21.59
11-Nov-21	147	79	48	15.26	24.56
12-Nov-21	171	87	52	12.24	24.09
18-Nov-21	129	71	37	15.65	30.06
19-Nov-21	117	67	41	11.32	21.09
25-Nov-21	153	84	49	13.71	25.89
26-Nov-21	163	87	47	9.79	24.86
02-Dec-21	123	68	45	16.49	36.85
03-Dec-21	183	48	32	19.69	22.53
09-Dec-21	113	73	44	21.63	25.41
10-Dec-21	135	76	48	23.74	26.82
17-Dec-21	187	89	57	13.90	26.21
18-Dec-21	196	84	40	14.91	26.27
23-Dec-21	169	78	41	18.15	25.45
24-Dec-21	146	85	44	13.17	24.41
29-Dec-21	156	68	39	14.29	23.04
30-Dec-21	140	72	42	18.71	26.07
06-Jan-22	155	83	32	20.05	28.14
07-Jan-22	146	77	29	17.22	22.30
13-Jan-22	165	74	30	18.66	20.48
14-Jan-22	162	85	36	20.90	26.34
20-Jan-22	175	94	36	13.67	28.08
21-Jan-22	134	88	27	19.13	20.18
28-Jan-22	170	93	32	20.35	24.08
29-Jan-22	178	75	45	21.63	28.82
03-Feb-22	148	91	31	16.78	27.01
04-Feb-22	133	79	44	18.29	29.30
10-Feb-22	129	76	30	17.73	33.31
11-Feb-22	146	84	41	13.82	31.09
17-Feb-22	159	74	46	10.67	21.96
18-Feb-22	146	70	44	13.29	17.83
24-Feb-22	135	67	36	10.74	17.20
25-Feb-22	146	76	40	11.50	19.80
03-Mar-22	147	88	32	17.28	24.60
04-Mar-22	131	80	30	20.05	25.51
10-Mar-22	123	77	24	20.25	19.65
11-Mar-22	105	70	20	16.67	18.51
16-Mar-22	126	71	26	9.23	21.02
17-Mar-22	126	80	27	16.54	21.56
24-Mar-22	133	80	30	11.03	18.32
25-Mar-22	126	74	26	14.23	22.30
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	223	95	57	29.9	54.3
Minimum	94	45	20	8	14

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JOB NO.750001

Average	140.34	75.86	38.29	16.65	27.56
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40

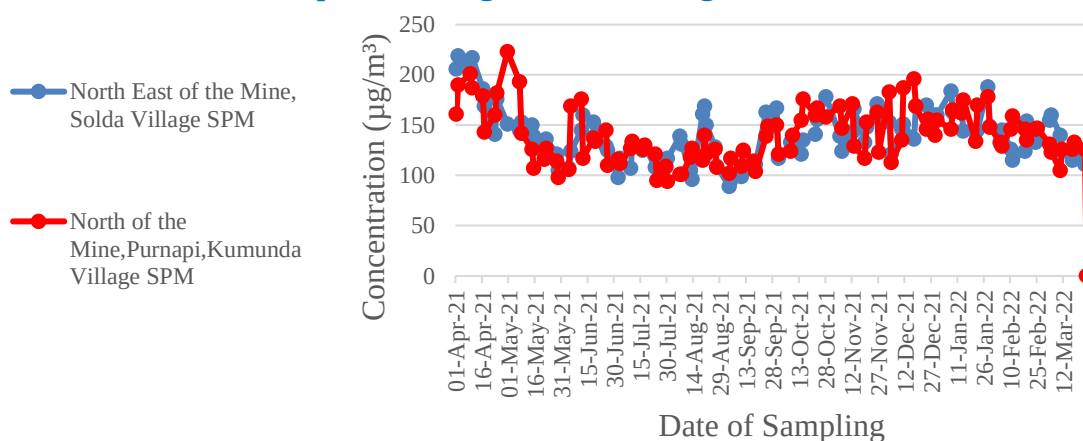


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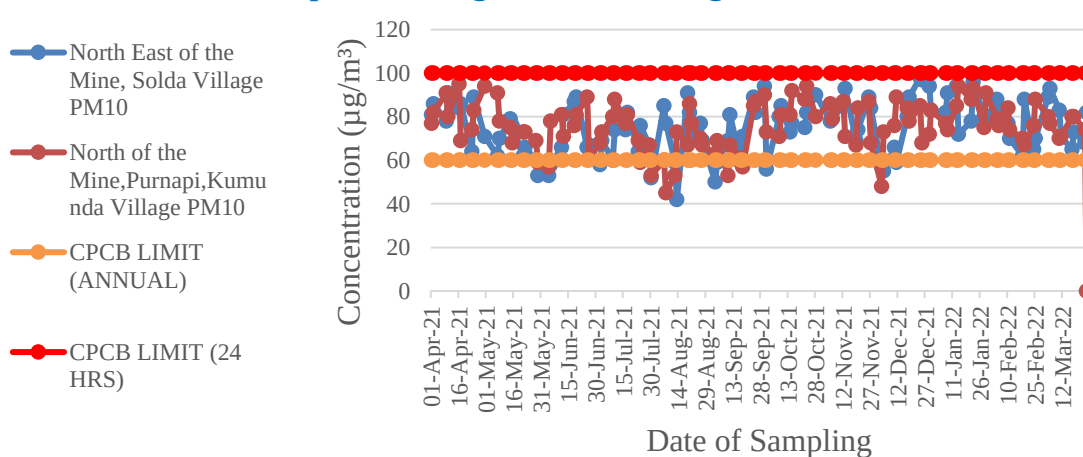
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JOB NO.750001

Graph Showing SPM for Hingula OCP



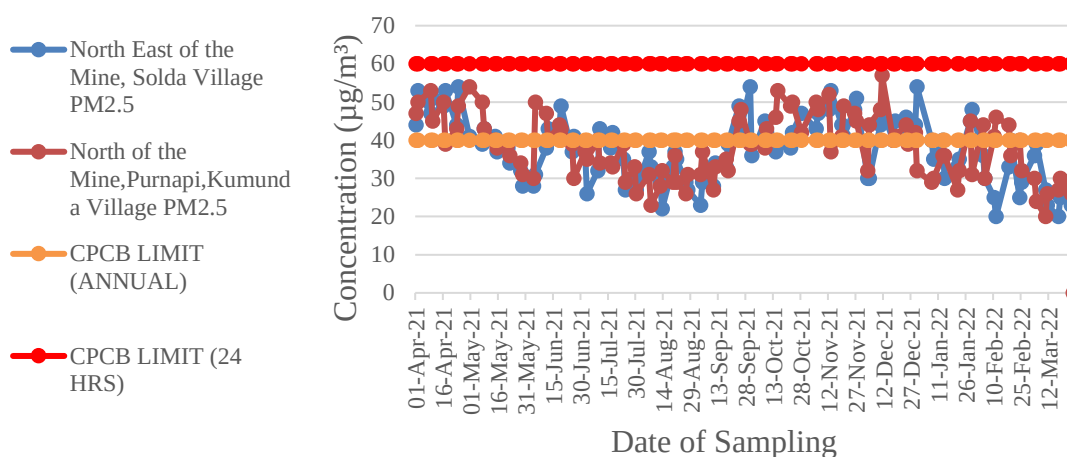
Graph Showing PM₁₀ for Hingula OCP



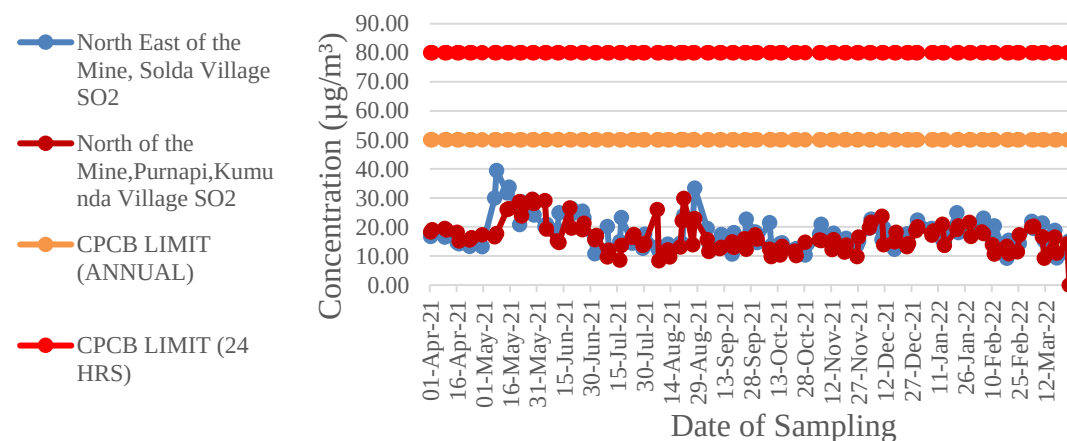
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JOB NO.750001

Graph Showing PM_{2.5} for Hingula OCP

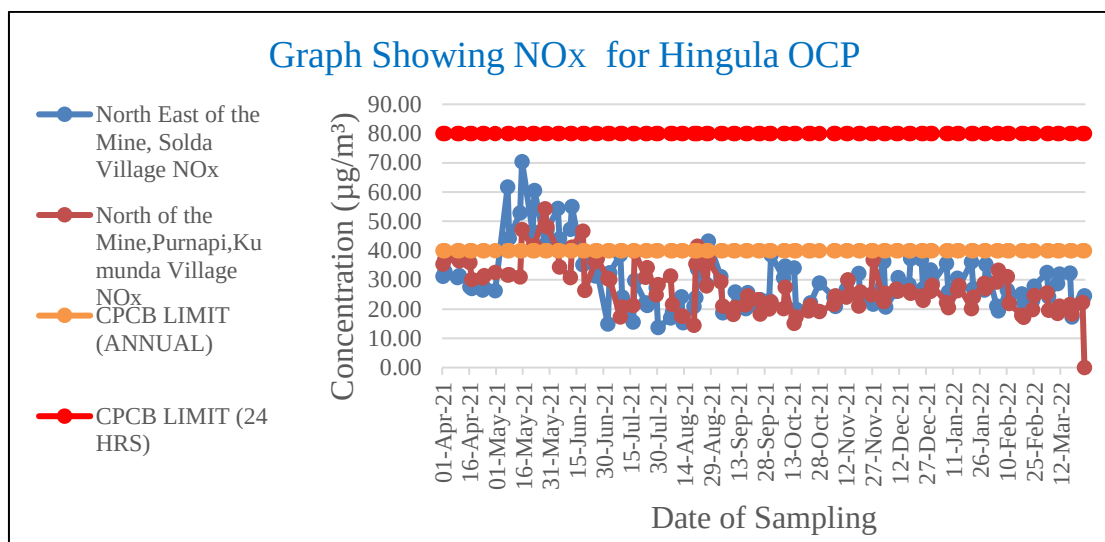


Graph Showing SO₂ for Hingula OCP



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JOB NO.750001

Table: 7.44
Area: Hingula
Project: Balram OCP
Monitoring Station: East of the Mine, Natedi Village

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
09-Apr-21	164	81	53	16.84	30.41
10-Apr-21	184	77	46	16.27	29.76
16-Apr-21	170	59	39	14.38	26.87
17-Apr-21	148	65	41	13.51	25.73
23-Apr-21	188	85	48	14.50	27.06
24-Apr-21	191	87	44	14.73	27.29
30-Apr-21	187	90	53	14.61	27.15
07-May-21	159	77	44	35.86	59.17
08-May-21	141	73	42	32.33	50.64
14-May-21	150	67	37	29.04	52.08
15-May-21	129	60	38	37.36	47.70
21-May-21	126	71	40	20.46	37.54
22-May-21	134	69	36	18.93	44.85
28-May-21	101	56	30	25.09	38.63
29-May-21	105	63	32	21.47	35.87
04-Jun-21	134	69	34	33.54	46.68
05-Jun-21	118	55	32	20.51	34.52
11-Jun-21	123	68	40	35.00	33.07
12-Jun-21	131	64	36	24.66	40.49
18-Jun-21	165	85	46	23.93	44.39
19-Jun-21	144	81	50	26.11	38.68
25-Jun-21	159	79	44	28.31	36.49
26-Jun-21	129	66	40	16.19	19.68
02-Jul-21	120	63	36	22.17	59.70
03-Jul-21	139	76	45	12.87	29.62
09-Jul-21	126	73	44	15.50	32.52
10-Jul-21	132	83	41	16.24	39.48
16-Jul-21	88	49	25	19.05	34.20
17-Jul-21	95	55	23	16.86	26.09
23-Jul-21	131	75	33	18.05	31.13
24-Jul-21	124	78	35	13.65	24.43
29-Jul-21	108	74	24	13.94	25.17
30-Jul-21	140	80	45	12.85	25.12
06-Aug-21	100	53	26	8.75	10.31
07-Aug-21	111	58	31	8.90	23.04
12-Aug-21	125	63	23	11.73	12.41
13-Aug-21	97	51	20	13.05	14.19
20-Aug-21	161	88	44	18.01	28.89
21-Aug-21	140	73	40	18.52	18.88
26-Aug-21	124	69	35	26.84	30.70
27-Aug-21	106	61	27	24.20	29.91
03-Sep-21	134	85	39	20.94	27.30
04-Sep-21	119	78	33	19.68	24.33

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JOB NO.750001

10-Sep-21	96	55	26	16.13	22.79
11-Sep-21	110	61	28	16.99	26.73
17-Sep-21	92	52	27	19.35	23.93
18-Sep-21	105	64	31	13.02	23.24
24-Sep-21	133	86	45	17.55	27.35
25-Sep-21	149	91	47	11.06	29.18
29-Sep-21	139	88	46	11.62	19.05
30-Sep-21	93	57	24	20.30	29.72
01-Oct-21	116	66	30	19.12	28.89
08-Oct-21	137	85	44	16.74	31.42
09-Oct-21	147	81	42	18.63	26.64
14-Oct-21	149	86	44	12.74	29.07
15-Oct-21	133	71	38	14.49	28.83
22-Oct-21	144	79	44	10.35	25.91
23-Oct-21	155	84	46	12.21	25.93
28-Oct-21	146	91	52	9.00	17.70
29-Oct-21	159	86	50	12.63	18.97
05-Nov-21	132	77	40	19.01	31.77
06-Nov-21	124	70	38	20.86	34.80
12-Nov-21	146	83	44	17.73	26.17
13-Nov-21	155	86	47	18.64	20.77
19-Nov-21	169	83	47	11.50	22.63
20-Nov-21	161	88	51	14.70	22.39
26-Nov-21	173	91	53	11.70	21.60
27-Nov-21	158	85	49	15.00	25.48
03-Dec-21	121	86	45	21.29	33.34
04-Dec-21	135	98	55	23.48	37.06
10-Dec-21	152	55	31	19.40	36.86
11-Dec-21	136	77	54	18.99	42.87
17-Dec-21	166	73	48	14.78	35.66
18-Dec-21	122	80	42	21.86	21.79
24-Dec-21	168	79	44	16.75	24.37
25-Dec-21	152	78	46	13.44	22.14
29-Dec-21	171	81	47	14.30	25.01
30-Dec-21	166	84	45	16.19	36.66
07-Jan-22	135	77	33	21.17	39.32
08-Jan-22	145	85	36	23.16	40.68
13-Jan-22	192	90	32	20.11	36.72
14-Jan-22	141	82	37	22.25	33.90
21-Jan-22	145	83	30	22.03	26.93
22-Jan-22	155	72	38	19.55	21.38
28-Jan-22	166	96	39	20.15	40.87
29-Jan-22	177	100	47	22.13	34.55
04-Feb-22	130	80	26	19.39	30.13
05-Feb-22	122	74	20	22.09	28.21
10-Feb-22	133	77	36	18.44	26.60
11-Feb-22	109	67	30	18.67	30.14
18-Feb-22	132	69	30	9.65	18.50
19-Feb-22	145	77	35	14.45	21.15
24-Feb-22	133	63	26	11.60	20.76
25-Feb-22	122	60	22	14.75	24.28
04-Mar-22	166	90	34	13.02	31.89
05-Mar-22	148	78	30	19.05	27.55

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JOB NO.750001

10-Mar-22	150	83	33	14.39	30.04
11-Mar-22	133	74	26	24.17	28.41
17-Mar-22	123	63	23	16.39	32.26
18-Mar-22	134	70	25	12.05	19.03
24-Mar-22	128	74	35	14.08	21.37
25-Mar-22	121	68	30	12.38	22.39
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	192	100	55	37.36	59.7
Minimum	88	49	20	9	10
Average	138.19	74.72	37.81	18.16	29.86
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



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JOB NO.750001

Table: 7.45
Area: Hingula
Project: Balram OCP
Monitoring Station: North West of the Mine, Solda Village (Reported Only)

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
01-Apr-21	206	81	44	16.79	31.18
02-Apr-21	219	86	53	17.46	32.91
09-Apr-21	203	78	47	16.54	30.75
10-Apr-21	217	91	51	17.13	31.46
16-Apr-21	186	84	49	14.62	27.61
17-Apr-21	169	86	53	14.15	27.08
23-Apr-21	141	64	44	13.30	26.49
24-Apr-21	176	89	54	14.38	27.26
30-Apr-21	151	71	41	13.17	26.28
07-May-21	145	62	39	30.01	61.73
08-May-21	153	70	43	39.50	44.26
14-May-21	150	79	41	31.75	52.94
15-May-21	139	76	37	33.73	70.42
21-May-21	121	62	38	20.83	46.50
22-May-21	136	66	34	28.61	60.54
28-May-21	121	60	32	29.41	42.04
29-May-21	105	53	28	24.12	47.13
04-Jun-21	107	53	28	20.03	54.37
05-Jun-21	124	58	31	20.93	44.04
11-Jun-21	145	66	38	18.94	47.26
12-Jun-21	160	81	43	24.92	55.11
18-Jun-21	153	87	43	24.03	35.16
19-Jun-21	140	89	49	26.32	39.59
25-Jun-21	129	66	37	25.46	31.31
26-Jun-21	125	67	41	23.12	32.66
02-Jul-21	98	58	38	10.75	14.93
03-Jul-21	117	69	26	16.67	32.41
09-Jul-21	107	60	32	20.12	38.57
10-Jul-21	133	74	43	12.27	24.16
16-Jul-21	125	74	38	15.00	15.52
17-Jul-21	129	82	42	23.21	29.75
23-Jul-21	108	64	35	14.46	22.17
24-Jul-21	113	76	27	16.26	21.30
29-Jul-21	108	67	30	12.61	27.33
30-Jul-21	117	52	27	17.50	13.72
06-Aug-21	139	85	37	13.00	16.99
07-Aug-21	131	77	33	11.87	18.93
12-Aug-21	105	59	29	14.07	24.24
13-Aug-21	96	42	22	13.07	15.40
19-Aug-21	161	91	33	14.45	20.94
20-Aug-21	169	82	37	14.33	23.84
21-Aug-21	150	72	35	23.97	33.75

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JOB NO.750001

26-Aug-21	128	77	29	22.34	28.43
27-Aug-21	109	69	27	33.41	43.23
03-Sep-21	89	50	23	19.48	31.10
04-Sep-21	95	59	29	14.40	18.69
10-Sep-21	99	69	28	15.07	19.99
11-Sep-21	124	81	34	17.43	25.86
17-Sep-21	107	59	33	10.68	20.15
18-Sep-21	111	71	39	18.06	25.65
24-Sep-21	163	89	49	14.51	20.62
25-Sep-21	146	82	43	22.69	23.21
30-Sep-21	167	94	54	18.31	22.92
01-Oct-21	117	56	36	14.64	38.58
08-Oct-21	133	80	45	21.52	30.65
09-Oct-21	139	85	42	13.50	34.74
14-Oct-21	121	73	37	14.35	34.08
15-Oct-21	135	77	39	14.48	19.93
22-Oct-21	141	75	38	12.18	20.01
23-Oct-21	156	82	42	12.51	22.11
28-Oct-21	178	90	47	10.39	28.90
05-Nov-21	139	78	43	17.48	24.08
06-Nov-21	124	79	47	20.94	20.96
12-Nov-21	143	85	48	14.71	26.71
13-Nov-21	166	93	53	17.81	29.80
19-Nov-21	133	69	44	12.67	32.25
20-Nov-21	148	74	41	16.05	23.18
26-Nov-21	171	89	48	13.81	25.03
27-Nov-21	157	84	51	15.09	21.74
03-Dec-21	153	57	30	19.58	36.25
04-Dec-21	121	55	30	22.69	20.73
10-Dec-21	146	66	44	15.61	26.07
11-Dec-21	151	59	48	19.72	30.75
17-Dec-21	136	80	40	12.38	28.42
18-Dec-21	169	89	45	13.64	37.28
24-Dec-21	170	98	46	17.58	36.97
25-Dec-21	156	97	43	17.19	27.00
29-Dec-21	160	94	44	19.24	33.40
30-Dec-21	160	83	54	22.40	28.82
07-Jan-22	184	82	40	19.52	35.65
08-Jan-22	163	91	35	18.05	25.88
13-Jan-22	165	94	40	15.63	30.61
14-Jan-22	144	72	30	14.82	27.64
21-Jan-22	143	78	33	24.94	36.18
22-Jan-22	145	96	35	18.06	26.94
28-Jan-22	188	80	45	17.75	26.56
29-Jan-22	149	79	48	20.91	35.29
04-Feb-22	132	88	36	18.88	21.07
05-Feb-22	145	81	30	23.03	19.39
10-Feb-22	126	77	25	15.32	26.53
11-Feb-22	115	70	20	20.36	24.30
18-Feb-22	124	62	33	9.29	25.18
19-Feb-22	154	88	40	15.44	22.25
24-Feb-22	133	65	25	14.07	22.88
25-Feb-22	145	70	29	14.36	27.83

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04-Mar-22	155	89	36	21.97	32.50
05-Mar-22	160	93	39	19.45	24.17
10-Mar-22	140	83	27	21.39	28.66
11-Mar-22	124	71	23	15.36	31.99
17-Mar-22	115	65	20	18.88	32.28
18-Mar-22	128	73	25	9.36	17.28
24-Mar-22	111	68	23	11.09	23.01
25-Mar-22	126	82	30	15.23	24.58
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	219	98	54	39.5	70.42
Minimum	89	42	20	9	14
Average	140.80	75.27	37.69	18.10	29.97
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40

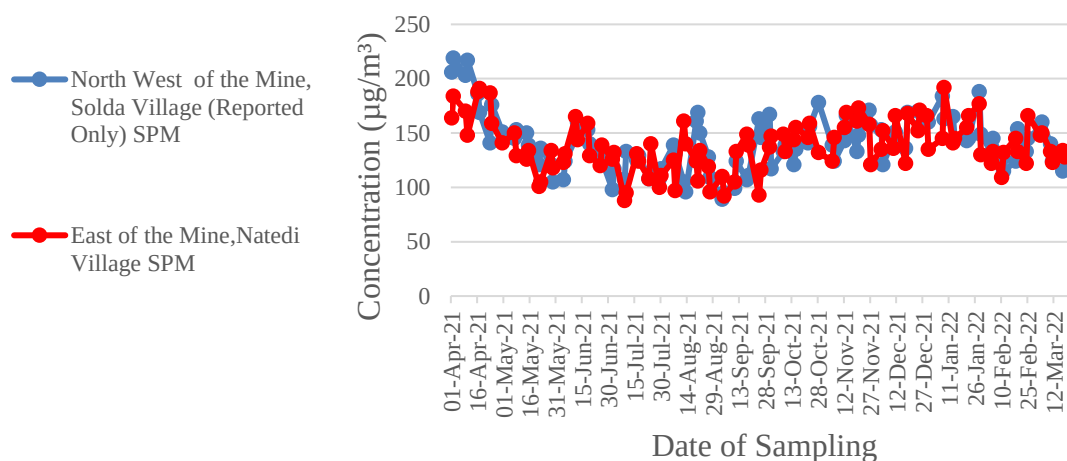


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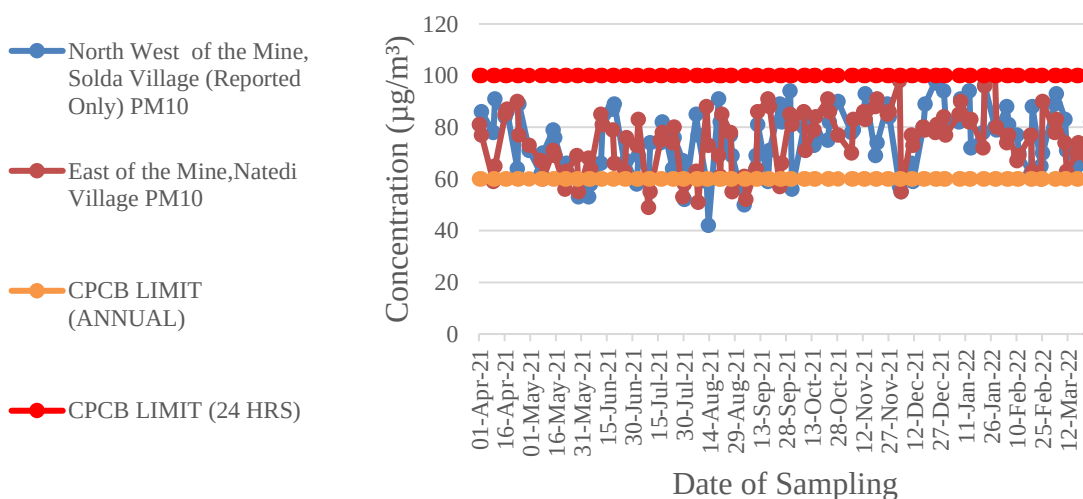
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Graph Showing SPM for Balram OCP



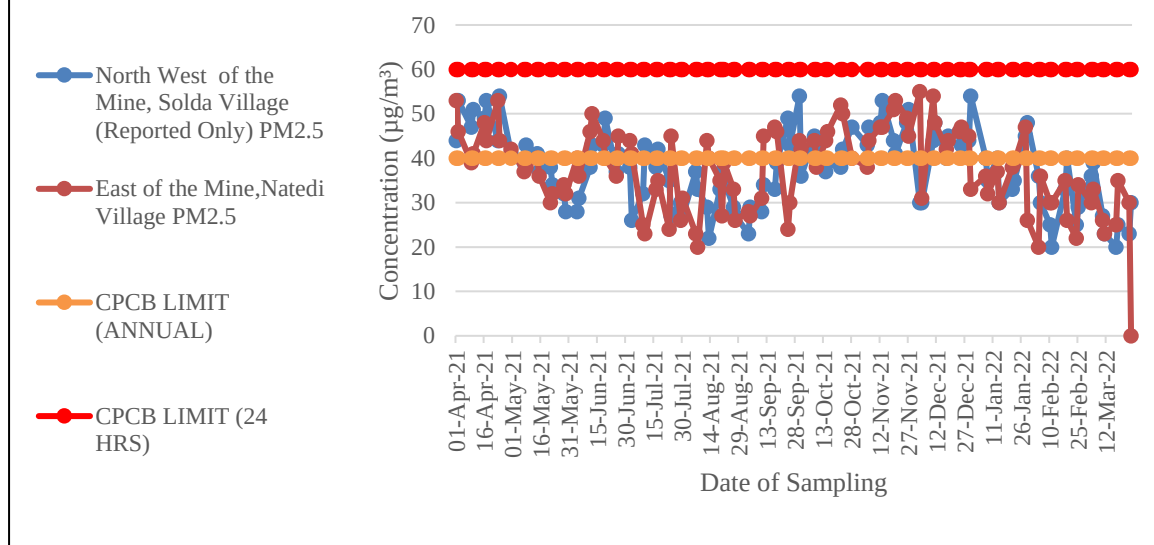
Graph Showing PM₁₀ for Balram OCP



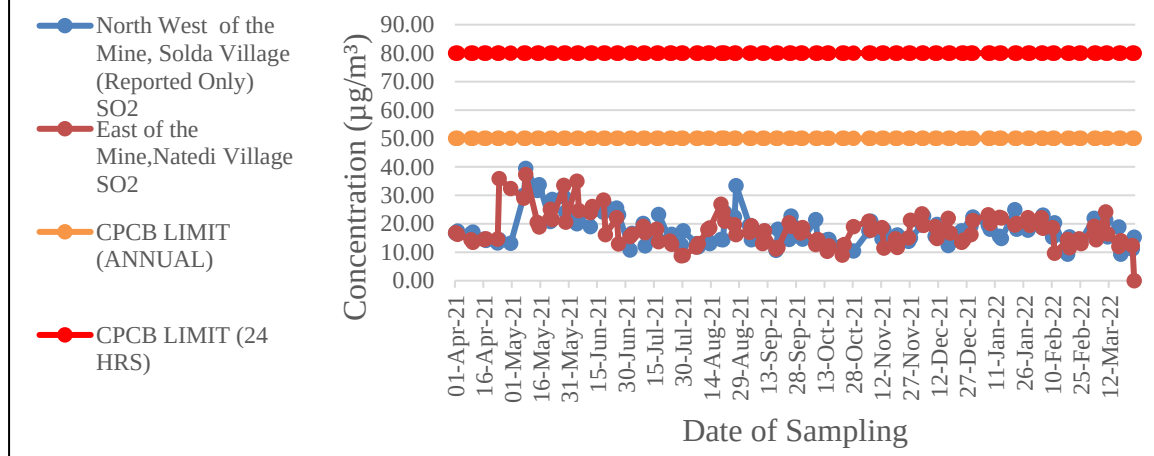
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Graph Showing PM_{2.5} for Balram OCP



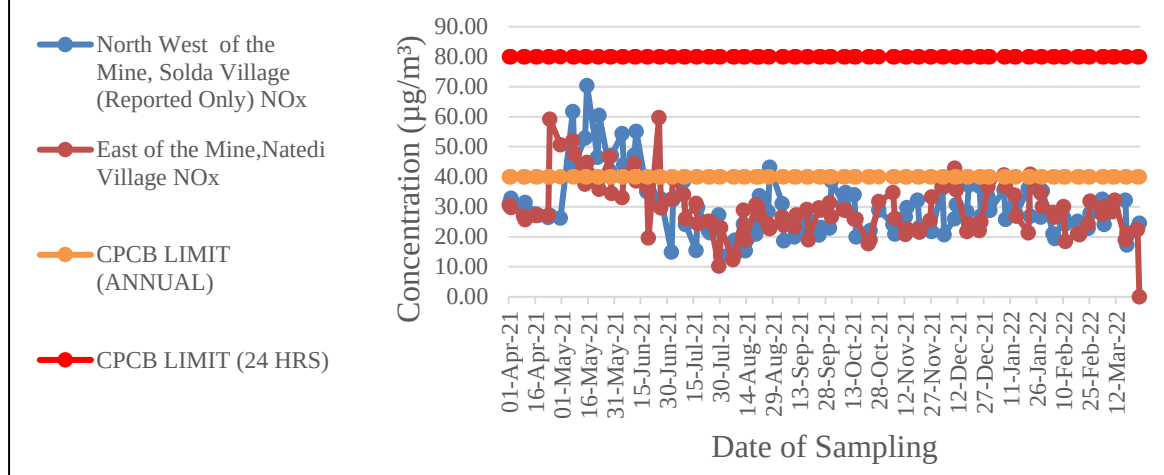
Graph Showing SO₂ for Balram OCP



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Graph Showing NO_x for Balram OCP



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JOB NO.750001

Table: 7.46
Area: Talcher
Project: Nandira Colliery
Monitoring Station: Nandira Colony

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
01-Apr-21	183	86	49	18.57	37.48
02-Apr-21	192	91	46	18.41	38.76
08-Apr-21	209	87	51	19.24	39.95
09-Apr-21	190	79	49	18.73	39.81
15-Apr-21	216	94	53	19.59	40.36
16-Apr-21	183	77	40	13.24	25.16
22-Apr-21	147	85	47	12.36	24.73
23-Apr-21	157	69	39	12.51	24.95
29-Apr-21	174	78	44	13.12	25.04
30-Apr-21	197	87	49	13.58	25.49
06-May-21	153	80	47	20.20	45.46
07-May-21	140	77	43	11.18	23.24
13-May-21	117	70	36	18.12	30.21
14-May-21	103	63	34	20.12	39.14
20-May-21	98	56	29	20.51	35.20
21-May-21	105	60	32	17.44	39.92
27-May-21	91	56	25	18.60	37.87
28-May-21	102	64	27	20.37	41.73
03-Jun-21	133	51	34	19.39	29.17
04-Jun-21	152	57	36	14.96	20.39
10-Jun-21	111	69	40	20.88	31.62
11-Jun-21	108	60	33	22.69	24.23
17-Jun-21	147	88	47	24.45	42.80
18-Jun-21	155	81	43	16.00	23.79
24-Jun-21	135	77	35	13.53	29.97
25-Jun-21	114	69	39	16.04	32.02
02-Jul-21	78	50	22	10.47	13.95
03-Jul-21	99	59	25	9.49	16.40
08-Jul-21	121	63	29	14.38	28.41
09-Jul-21	119	70	33	17.12	26.49
15-Jul-21	103	56	29	12.33	19.13
16-Jul-21	116	50	24	15.64	26.93
22-Jul-21	92	63	31	15.74	22.26
23-Jul-21	98	57	27	11.96	18.52
29-Jul-21	147	84	36	15.74	22.62
05-Aug-21	116	67	26	8.33	20.09
06-Aug-21	107	77	30	8.69	20.38
11-Aug-21	109	65	24	11.79	13.74
12-Aug-21	98	59	28	8.23	13.07
19-Aug-21	101	55	25	11.69	21.78
20-Aug-21	114	59	22	13.34	19.73
25-Aug-21	128	71	26	13.05	17.06
26-Aug-21	123	77	36	10.49	21.08

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JOB NO.750001

03-Sep-21	83	47	29	15.39	25.37
04-Sep-21	87	53	26	12.86	21.42
08-Sep-21	96	63	30	11.68	25.44
09-Sep-21	116	70	35	17.01	28.04
17-Sep-21	96	46	29	12.07	21.10
18-Sep-21	110	69	34	10.94	21.92
22-Sep-21	121	76	37	12.33	23.23
23-Sep-21	141	83	44	8.41	18.03
30-Sep-21	142	79	41	12.71	18.16
01-Oct-21	114	69	33	16.82	27.82
08-Oct-21	133	78	38	17.33	19.12
09-Oct-21	145	83	41	13.84	20.78
13-Oct-21	121	73	36	15.57	20.88
14-Oct-21	138	7	40	13.93	18.11
21-Oct-21	124	69	38	11.21	15.43
22-Oct-21	112	74	40	12.76	19.60
27-Oct-21	138	77	43	12.75	16.65
28-Oct-21	129	80	45	10.48	18.22
04-Nov-21	106	59	36	12.00	18.53
05-Nov-21	113	64	39	13.71	18.89
11-Nov-21	136	75	43	15.33	24.00
12-Nov-21	131	78	46	16.71	26.04
18-Nov-21	131	77	40	13.17	20.55
19-Nov-21	119	74	38	14.84	19.33
25-Nov-21	133	80	44	15.24	20.84
26-Nov-21	157	84	46	15.22	22.47
02-Dec-21	100	60	30	15.25	23.88
03-Dec-21	161	67	35	18.74	27.52
09-Dec-21	150	55	32	15.99	31.98
10-Dec-21	131	67	37	21.28	35.22
17-Dec-21	137	82	56	17.16	21.04
18-Dec-21	193	67	54	13.63	29.40
23-Dec-21	185	77	52	15.52	23.17
24-Dec-21	164	71	51	17.08	20.61
29-Dec-21	144	81	53	10.03	21.98
30-Dec-21	169	82	52	18.78	28.69
06-Jan-22	182	99	30	10.38	30.51
07-Jan-22	190	94	36	14.60	22.47
13-Jan-22	177	71	26	17.14	32.97
14-Jan-22	104	77	32	18.68	28.42
20-Jan-22	165	94	37	15.91	17.45
21-Jan-22	174	85	34	11.70	15.71
28-Jan-22	150	90	40	12.43	19.70
29-Jan-22	136	88	33	13.43	18.26
03-Feb-22	140	72	25	9.88	27.86
04-Feb-22	139	80	30	14.53	20.45
10-Feb-22	156	87	36	11.96	34.56
11-Feb-22	140	79	32	10.03	29.48
17-Feb-22	122	66	25	12.63	16.08
18-Feb-22	132	74	29	10.49	17.76
24-Feb-22	136	70	26	7.53	14.97
25-Feb-22	145	85	33	9.45	15.61
03-Mar-22	136	69	36	16.83	24.17

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04-Mar-22	123	61	31	13.88	20.55
10-Mar-22	115	74	25	12.23	19.30
11-Mar-22	126	94	30	15.08	21.21
16-Mar-22	139	84	36	22.60	21.86
17-Mar-22	120	72	29	15.26	24.23
24-Mar-22	159	80	35	10.08	19.30
25-Mar-22	149	77	31	11.15	19.32
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	216	99	56	24.45	45.46
Minimum	78	7	22	8	13
Average	134.39	71.95	36.12	14.54	24.62
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



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JOB NO.750001

Table: 7.47
Area: Talcher
Project: Nandira Colliery
Monitoring Station: Near Natedi Village (Reported Only)

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOX
09-Apr-21	164	81	53	16.84	30.41
10-Apr-21	184	77	46	16.27	29.76
17-Apr-21	148	65	41	13.51	25.73
23-Apr-21	188	85	48	14.50	27.06
24-Apr-21	191	87	44	14.73	27.29
30-Apr-21	187	90	53	14.61	27.15
07-May-21	159	77	44	35.86	59.17
08-May-21	141	73	42	32.33	50.64
14-May-21	150	67	37	29.04	52.08
15-May-21	129	60	38	37.36	47.70
21-May-21	126	71	40	20.46	37.54
22-May-21	134	69	36	18.93	44.85
28-May-21	101	56	30	25.09	38.63
29-May-21	105	63	32	21.47	35.87
04-Jun-21	134	69	34	33.54	46.68
05-Jun-21	118	55	32	20.51	34.52
11-Jun-21	123	68	40	35.00	33.07
12-Jun-21	131	64	36	24.66	40.49
18-Jun-21	165	85	46	23.93	44.39
19-Jun-21	144	81	50	26.11	38.68
25-Jun-21	159	79	44	28.31	36.49
26-Jun-21	129	66	40	16.19	19.68
02-Jul-21	120	63	36	22.17	59.70
03-Jul-21	139	76	45	12.87	29.62
09-Jul-21	126	73	44	15.50	32.52
10-Jul-21	132	83	41	16.24	39.48
16-Jul-21	88	49	25	19.05	34.20
17-Jul-21	95	55	23	16.86	26.09
23-Jul-21	131	75	33	18.05	31.13
24-Jul-21	124	78	35	13.65	24.43
29-Jul-21	108	74	24	13.94	25.17
30-Jul-21	140	80	45	12.85	25.12
06-Aug-21	100	53	26	8.75	10.31
07-Aug-21	111	58	31	8.90	23.04
12-Aug-21	125	63	23	11.73	12.41
13-Aug-21	97	51	20	13.05	14.19
20-Aug-21	161	88	44	18.01	28.89
21-Aug-21	140	73	40	18.52	18.88
26-Aug-21	124	69	35	26.84	30.70
27-Aug-21	106	61	27	24.20	29.91
03-Sep-21	134	85	39	20.94	27.30
04-Sep-21	119	78	33	19.68	24.33
10-Sep-21	96	55	26	16.13	22.79

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JOB NO.750001

11-Sep-21	110	61	28	16.99	26.73
17-Sep-21	92	52	27	19.35	23.93
18-Sep-21	105	64	31	13.02	23.24
24-Sep-21	133	86	45	17.55	27.35
25-Sep-21	149	91	47	11.06	29.18
29-Sep-21	139	88	46	11.62	19.05
30-Sep-21	93	57	24	20.30	29.72
01-Oct-21	116	66	30	19.12	28.89
08-Oct-21	137	85	44	16.74	31.42
09-Oct-21	147	81	42	18.63	26.64
14-Oct-21	149	86	44	12.74	29.07
15-Oct-21	133	71	38	14.49	28.83
22-Oct-21	144	79	44	10.35	25.91
23-Oct-21	155	84	46	12.21	25.93
28-Oct-21	146	91	52	9.00	17.70
29-Oct-21	159	86	50	12.63	18.97
05-Nov-21	132	77	40	19.01	31.77
06-Nov-21	124	70	38	20.86	34.80
12-Nov-21	146	83	44	17.73	26.17
13-Nov-21	155	86	47	18.64	20.77
19-Nov-21	169	83	47	11.50	22.63
20-Nov-21	161	88	51	14.70	22.39
26-Nov-21	173	91	53	11.70	21.60
27-Nov-21	158	85	49	15.00	25.48
03-Dec-21	121	86	45	21.29	33.34
04-Dec-21	135	98	55	23.48	37.06
10-Dec-21	152	55	31	19.40	36.86
11-Dec-21	136	77	54	18.99	42.87
17-Dec-21	166	73	48	14.78	35.66
18-Dec-21	122	80	42	21.86	21.79
24-Dec-21	168	79	44	16.75	24.37
25-Dec-21	152	78	46	13.44	22.14
29-Dec-21	171	81	47	14.30	25.01
30-Dec-21	166	84	45	16.19	36.66
07-Jan-22	135	77	33	21.17	39.32
08-Jan-22	145	85	36	23.16	40.68
13-Jan-22	192	90	32	20.11	36.72
14-Jan-22	141	82	37	22.25	33.90
21-Jan-22	145	83	30	22.03	26.93
22-Jan-22	155	72	38	19.55	21.38
28-Jan-22	166	96	39	20.15	40.87
29-Jan-22	177	100	47	22.13	34.55
04-Feb-22	130	80	26	19.39	30.13
05-Feb-22	122	74	20	22.09	28.21
10-Feb-22	133	77	36	18.44	26.60
11-Feb-22	109	67	30	18.67	30.14
18-Feb-22	132	69	30	9.65	18.50
19-Feb-22	145	77	35	14.45	21.15
24-Feb-22	133	63	26	11.60	20.76
25-Feb-22	122	60	22	14.75	24.28
04-Mar-22	166	90	34	13.02	31.89
05-Mar-22	148	78	30	19.05	27.55
10-Mar-22	150	83	33	14.39	30.04

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11-Mar-22	133	74	26	24.17	28.41
17-Mar-22	123	63	23	16.39	32.26
18-Mar-22	134	70	25	12.05	19.03
24-Mar-22	128	74	35	14.08	21.37
25-Mar-22	121	68	30	12.38	22.39
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	192	100	55	37.36	59.7
Minimum	88	49	20	9	10
Average	137.87	74.87	37.80	18.20	29.89
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40

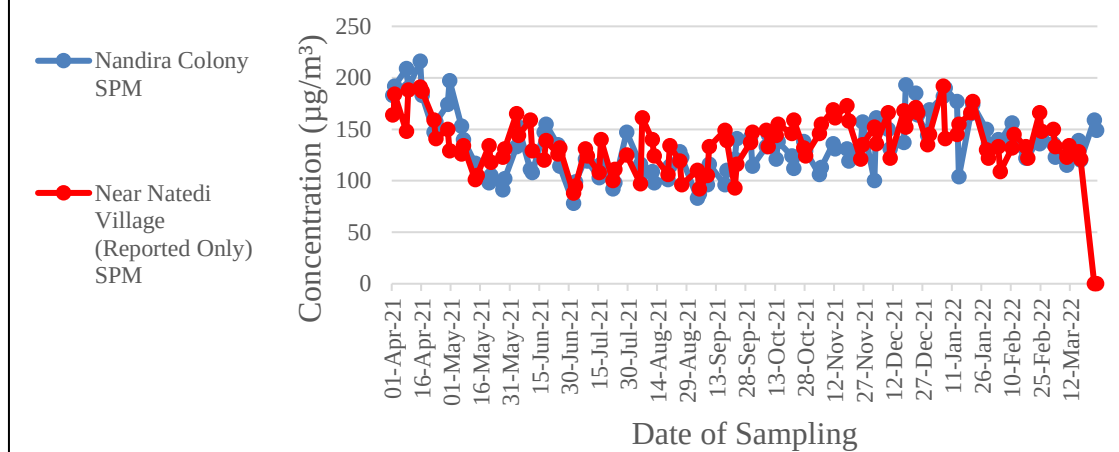


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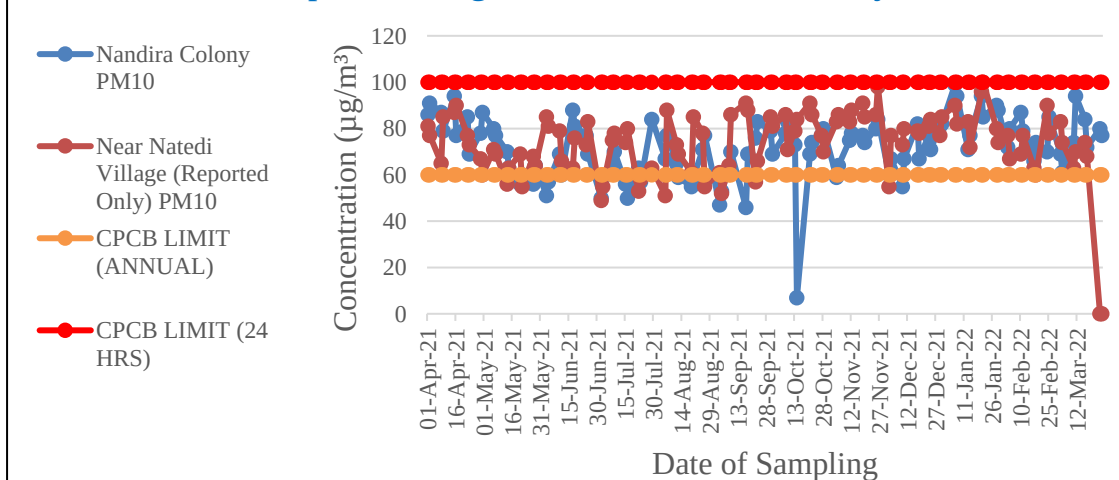
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Graph Showing SPM for Nandira Colliery



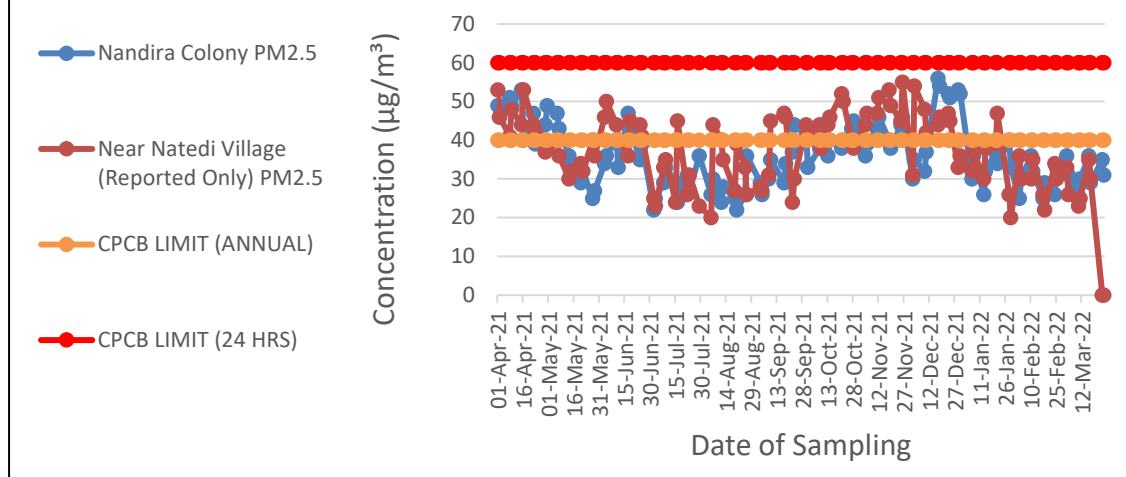
Graph Showing PM₁₀ for Nandira Colliery



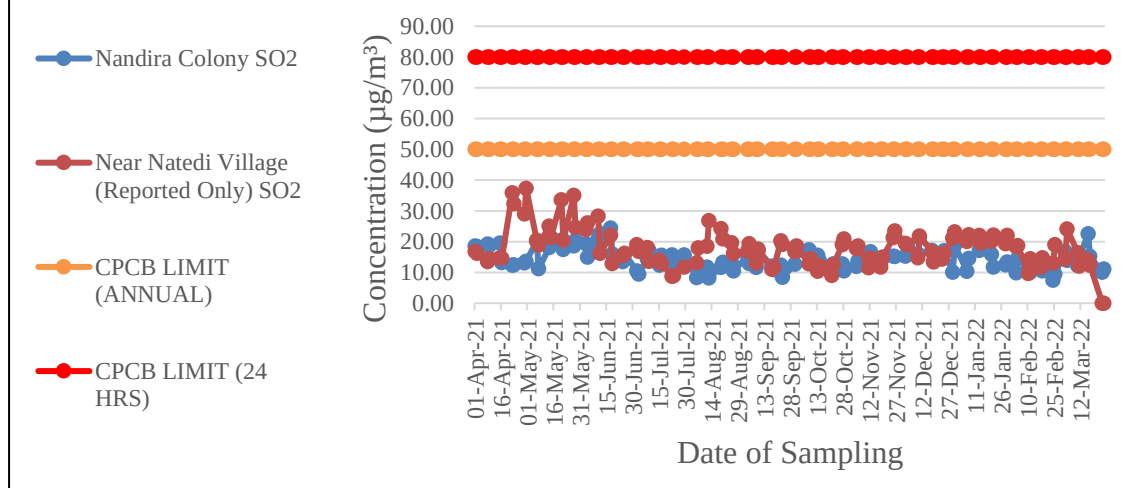
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Graph Showing PM_{2.5} for Nandira Colliery



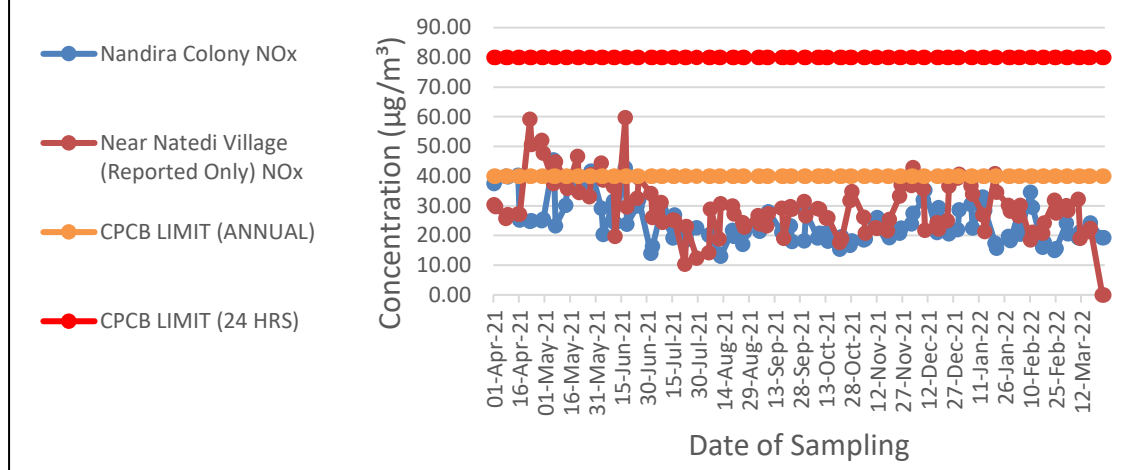
Graph Showing SO₂ for Nandira Colliery



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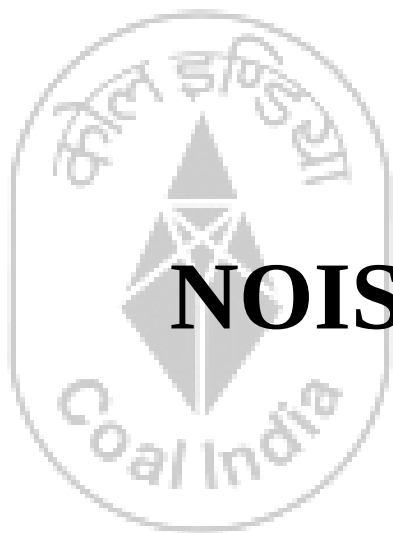
Graph Showing NO_x for Nandira Colliery



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NOISE QUALITY

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TABLE NO 8 FOR WELL WATER QUALITY DATA

Table: 8.1

Area: Jagannath

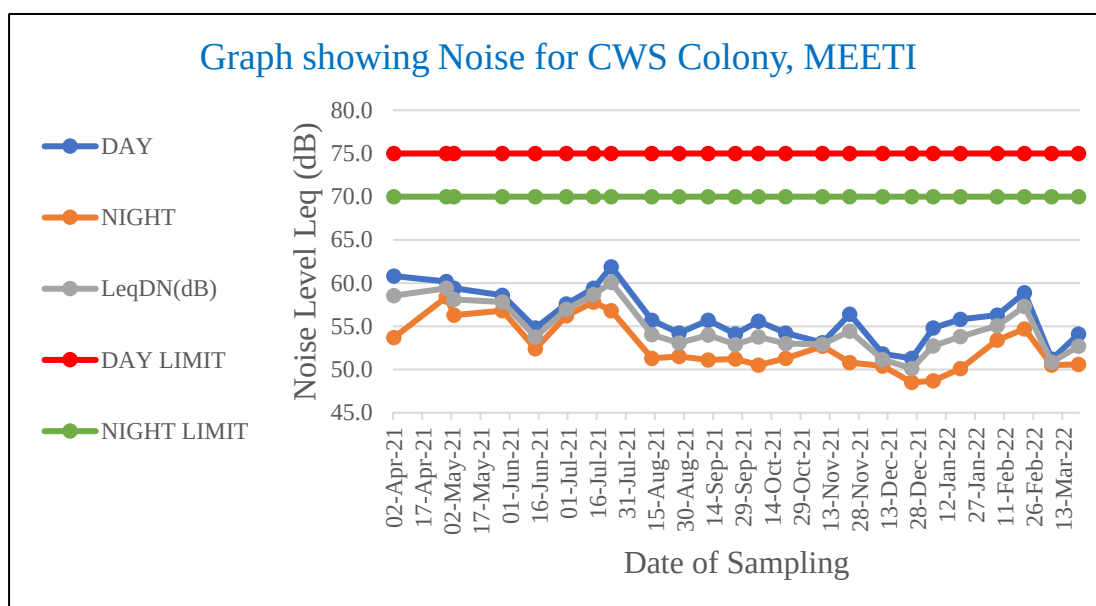
Project: Jagannath OCP

Monitoring Station: CWS Colony, MEETI

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	60.8	53.7	58.6
29-Apr-21	60.2	58.4	59.4
03-May-21	59.4	56.3	58.1
28-May-21	58.6	56.8	57.8
14-Jun-21	54.8	52.4	53.8
30-Jun-21	57.6	56.2	57.0
14-Jul-21	59.4	57.8	58.7
23-Jul-21	61.9	56.8	60.1
13-Aug-21	55.7	51.3	54.0
27-Aug-21	54.2	51.5	53.1
11-Sep-21	55.7	51.1	54.0
25-Sep-21	54.1	51.2	52.9
07-Oct-21	55.6	50.5	53.8
21-Oct-21	54.2	51.3	53.0
09-Nov-21	53.1	52.7	52.9
23-Nov-21	56.4	50.8	54.4
10-Dec-21	51.8	50.4	51.2
25-Dec-21	51.3	48.5	50.1
05-Jan-22	54.8	48.7	52.7
19-Jan-22	55.8	50.1	53.8
07-Feb-22	56.3	53.4	55.1
21-Feb-22	58.9	54.7	57.3
07-Mar-22	51.2	50.5	50.9
21-Mar-22	54.1	50.6	52.7
MIN	51.2	48.5	50.1
MAX	61.9	58.4	60.5
MEAN	56.08	52.74	54.7
Noise Standard	75	70	

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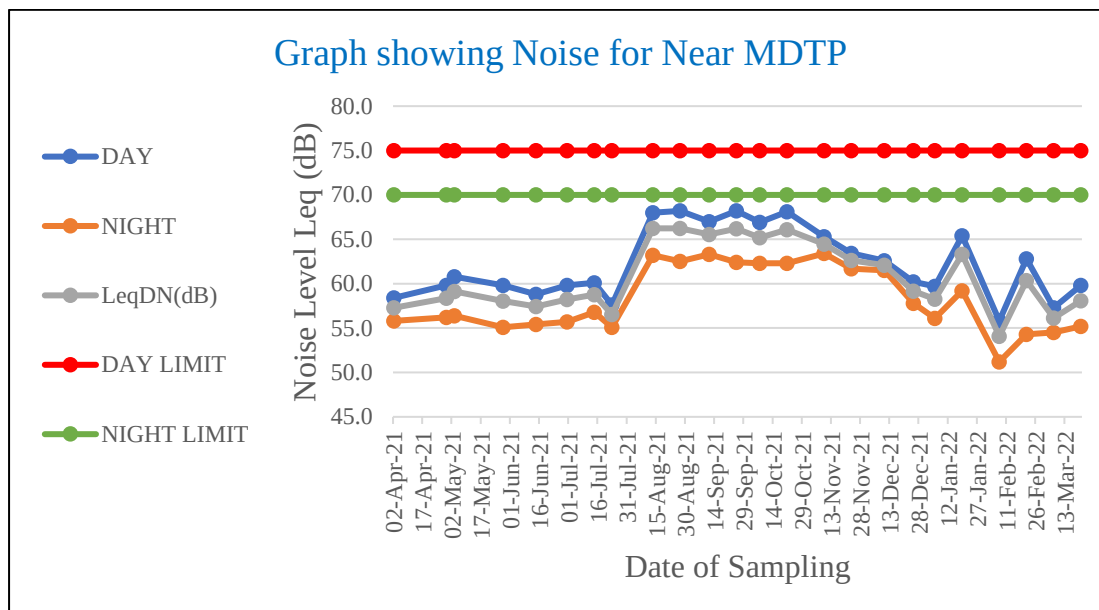
JOB NO.750001

Table: 8.2
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: Near MDTP

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	58.4	55.8	57.3
29-Apr-21	59.8	56.2	58.4
03-May-21	60.8	56.4	59.1
28-May-21	59.8	55.1	58.1
14-Jun-21	58.8	55.4	57.4
30-Jun-21	59.8	55.7	58.2
14-Jul-21	60.1	56.8	58.8
23-Jul-21	57.6	55.1	56.5
13-Aug-21	68.0	63.2	66.2
27-Aug-21	68.2	62.5	66.2
11-Sep-21	67.0	63.3	65.5
25-Sep-21	68.2	62.4	66.2
07-Oct-21	66.9	62.3	65.2
21-Oct-21	68.1	62.3	66.1
09-Nov-21	65.3	63.4	64.5
23-Nov-21	63.4	61.7	62.6
10-Dec-21	62.6	61.5	62.1
25-Dec-21	60.2	57.8	59.2
05-Jan-22	59.7	56.1	58.3
19-Jan-22	65.4	59.2	63.3
07-Feb-22	55.8	51.2	54.1
21-Feb-22	62.8	54.3	60.4
07-Mar-22	57.3	54.5	56.1
21-Mar-22	59.8	55.2	58.1
MIN	55.8	51.2	54.1
MAX	68.2	63.4	66.4
MEAN	62.24	58.23	60.7
Noise Standard	75	70	

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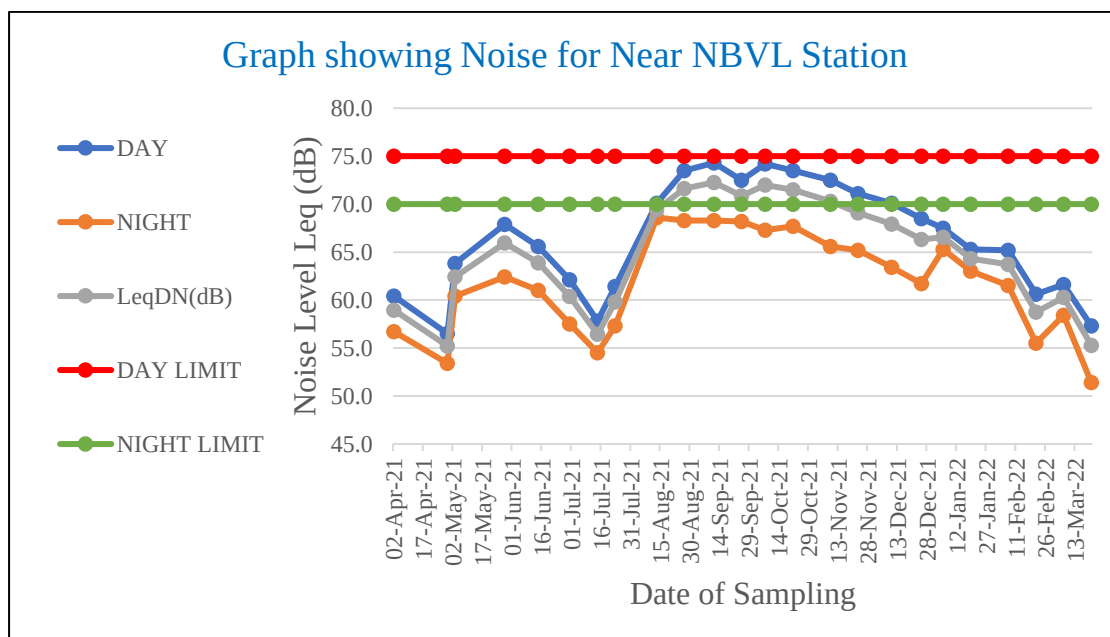
JOB NO.750001

Table: 8.3
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: Near NBVL Station

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	60.4	56.7	58.9
29-Apr-21	56.5	53.4	55.2
03-May-21	63.8	60.4	62.4
28-May-21	67.9	62.4	66.0
14-Jun-21	65.6	61.0	63.9
30-Jun-21	62.1	57.5	60.4
14-Jul-21	57.8	54.5	56.5
23-Jul-21	61.4	57.3	59.8
13-Aug-21	70.1	68.6	69.4
27-Aug-21	73.5	68.3	71.6
11-Sep-21	74.3	68.3	72.3
25-Sep-21	72.5	68.2	70.9
07-Oct-21	74.2	67.3	72.0
21-Oct-21	73.5	67.7	71.5
09-Nov-21	72.5	65.6	70.3
23-Nov-21	71.1	65.2	69.1
10-Dec-21	70.1	63.4	67.9
25-Dec-21	68.5	61.7	66.3
05-Jan-22	67.5	65.3	66.5
19-Jan-22	65.3	63.0	64.3
07-Feb-22	65.2	61.5	63.7
21-Feb-22	60.6	55.5	58.8
07-Mar-22	61.6	58.4	60.3
21-Mar-22	57.3	51.4	55.3
MIN	56.5	51.4	54.7
MAX	74.3	68.6	72.3
MEAN	66.39	61.78	64.7
Noise Standard	75	70	

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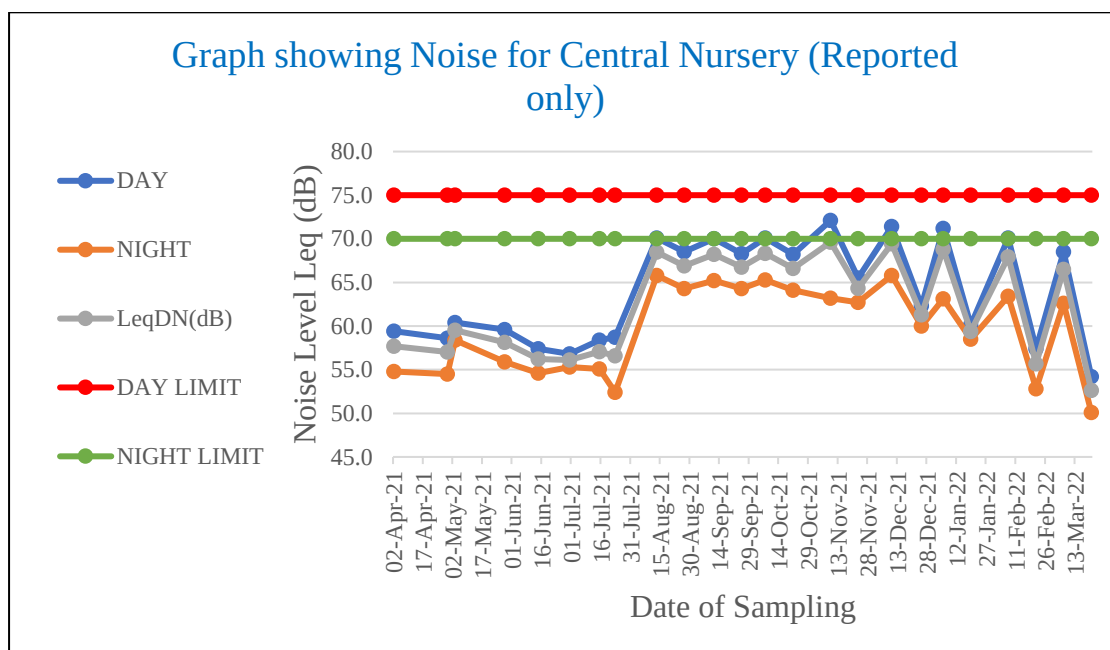
JOB NO.750001

Table: 8.4
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: Central Nursery (Reported only)

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	59.4	54.8	57.7
29-Apr-21	58.6	54.5	57.0
03-May-21	60.4	58.4	59.5
28-May-21	59.6	55.9	58.1
14-Jun-21	57.4	54.6	56.2
30-Jun-21	56.8	55.3	56.1
15-Jul-21	58.4	55.1	57.1
23-Jul-21	58.7	52.4	56.6
13-Aug-21	70.1	65.8	68.5
27-Aug-21	68.5	64.3	66.9
11-Sep-21	70.0	65.2	68.2
25-Sep-21	68.3	64.3	66.7
07-Oct-21	70.1	65.3	68.3
21-Oct-21	68.2	64.1	66.6
09-Nov-21	72.1	63.2	69.6
23-Nov-21	65.5	62.7	64.3
10-Dec-21	71.4	65.8	69.4
25-Dec-21	62.3	60.0	61.3
05-Jan-22	71.2	63.1	68.8
19-Jan-22	60.1	58.5	59.4
07-Feb-22	70.1	63.4	67.9
21-Feb-22	57.4	52.8	55.7
07-Mar-22	68.5	62.6	66.5
21-Mar-22	54.2	50.1	52.6
MIN	54.2	50.1	52.6
MAX	72.1	65.8	70.0
MEAN	64.05	59.68	62.4
Noise Standard	75	70	

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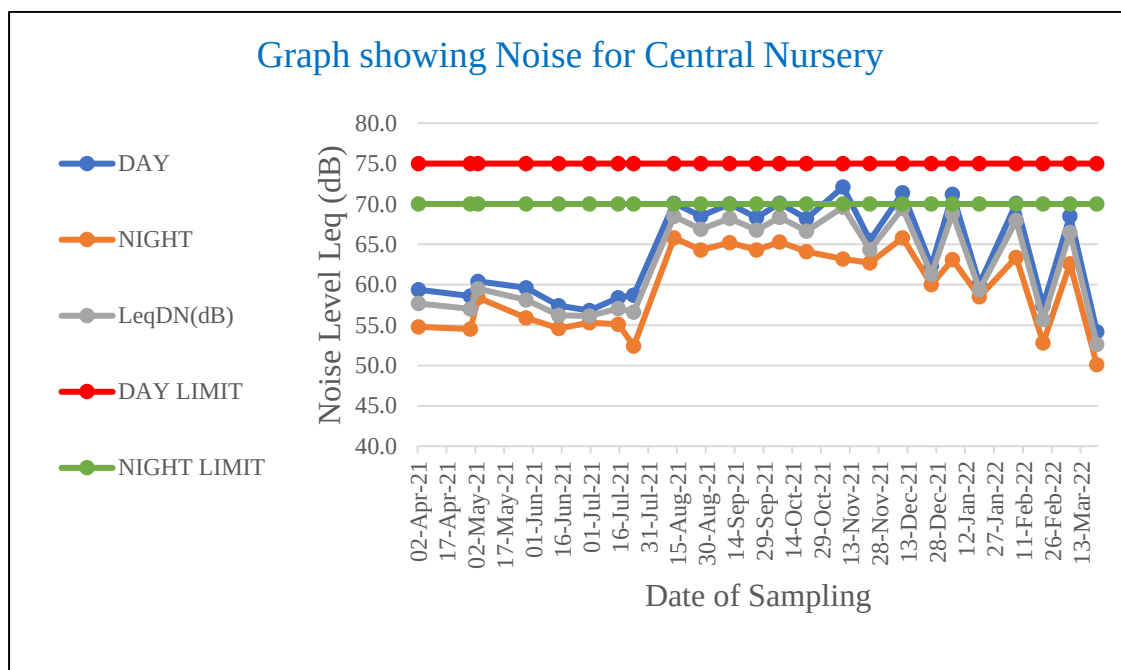
JOB NO.750001

Table: 8.5
Area: Jagannath
Project: Ananta OCP
Monitoring Station: Central Nursery

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	59.4	54.8	57.7
29-Apr-21	58.6	54.5	57.0
03-May-21	60.4	58.4	59.5
28-May-21	59.6	55.9	58.1
14-Jun-21	57.4	54.6	56.2
30-Jun-21	56.8	55.3	56.1
15-Jul-21	58.4	55.1	57.1
23-Jul-21	58.7	52.4	56.6
13-Aug-21	70.1	65.8	68.5
27-Aug-21	68.5	64.3	66.9
11-Sep-21	70.0	65.2	68.2
25-Sep-21	68.3	64.3	66.7
07-Oct-21	70.1	65.3	68.3
21-Oct-21	68.2	64.1	66.6
09-Nov-21	72.1	63.2	69.6
23-Nov-21	65.5	62.7	64.3
10-Dec-21	71.4	65.8	69.4
25-Dec-21	62.3	60.0	61.3
05-Jan-22	71.2	63.1	68.8
19-Jan-22	60.1	58.5	59.4
07-Feb-22	70.1	63.4	67.9
21-Feb-22	57.4	52.8	55.7
07-Mar-22	68.5	62.6	66.5
21-Mar-22	54.2	50.1	52.6
MIN	54.2	50.1	52.6
MAX	72.1	65.8	52.6
MEAN	64.05	59.68	52.6
Noise Standard	75	70	

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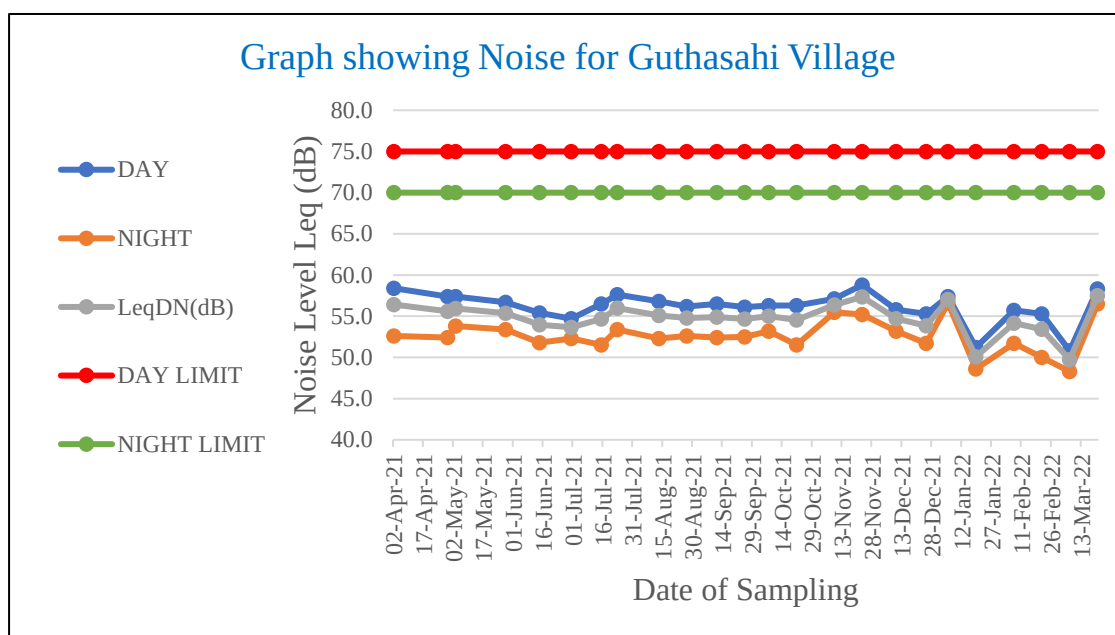
JOB NO.750001

Table: 8.6
Area: Jagannath
Project: Ananta OCP
Monitoring Station: Guthasahi Village

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	58.4	52.6	56.4
29-Apr-21	57.4	52.4	55.6
03-May-21	57.4	53.8	56.0
28-May-21	56.7	53.4	55.4
14-Jun-21	55.4	51.8	54.0
30-Jun-21	54.7	52.3	53.7
15-Jul-21	56.5	51.5	54.7
23-Jul-21	57.6	53.4	56.0
13-Aug-21	56.8	52.3	55.1
27-Aug-21	56.2	52.6	54.8
11-Sep-21	56.5	52.4	54.9
25-Sep-21	56.1	52.5	54.7
07-Oct-21	56.3	53.2	55.0
21-Oct-21	56.3	51.5	54.5
09-Nov-21	57.1	55.5	56.4
23-Nov-21	58.8	55.2	57.4
10-Dec-21	55.8	53.2	54.7
25-Dec-21	55.3	51.7	53.9
05-Jan-22	57.4	56.6	57.0
19-Jan-22	51.2	48.6	50.1
07-Feb-22	55.7	51.7	54.1
21-Feb-22	55.3	50.0	53.4
07-Mar-22	50.8	48.3	49.7
21-Mar-22	58.3	56.5	57.5
MIN	50.8	48.3	49.7
MAX	58.8	56.6	57.8
MEAN	56.17	52.63	54.75
Noise Standard	75	70	

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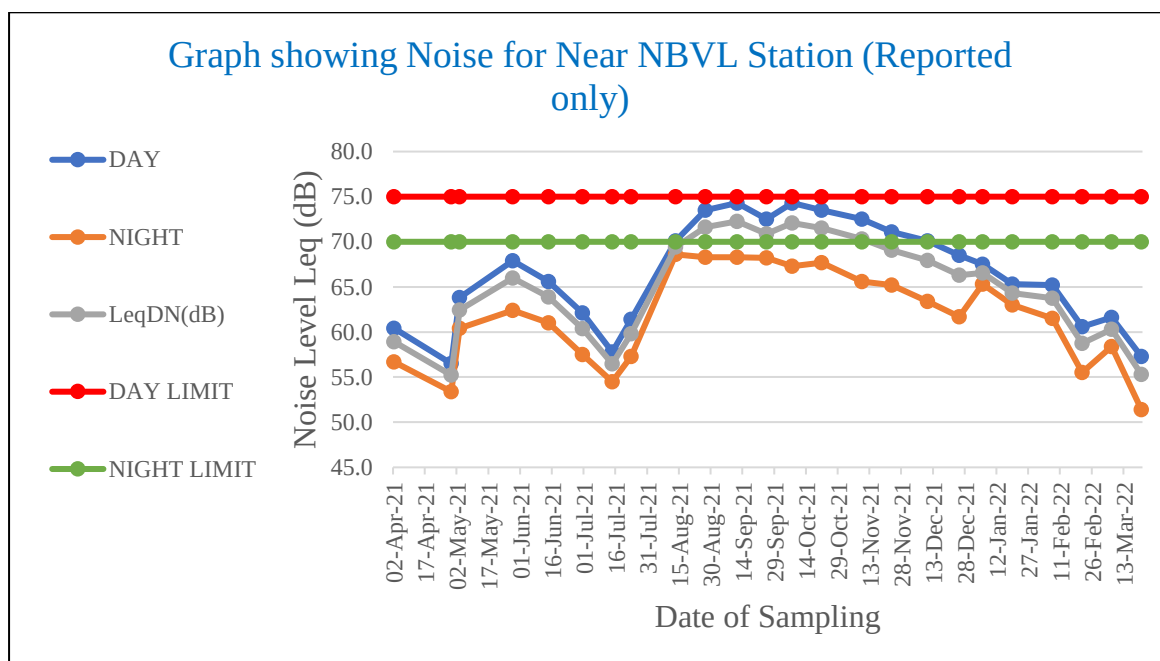
JOB NO.750001

Table: 8.7
Area: Jagannath
Project: Ananta OCP
Monitoring Station: Near NBVL Station (Reported only)

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	60.4	56.7	58.9
29-Apr-21	56.5	53.4	55.2
03-May-21	63.8	60.4	62.4
28-May-21	67.9	62.4	66.0
14-Jun-21	65.6	61.0	63.9
30-Jun-21	62.1	57.5	60.4
14-Jul-21	57.8	54.5	56.5
23-Jul-21	61.4	57.3	59.8
13-Aug-21	70.1	68.6	69.4
27-Aug-21	73.5	68.3	71.6
11-Sep-21	74.3	68.3	72.3
25-Sep-21	72.5	68.2	70.9
07-Oct-21	74.3	67.3	72.1
21-Oct-21	73.5	67.7	71.5
09-Nov-21	72.5	65.6	70.3
23-Nov-21	71.1	65.2	69.1
10-Dec-21	70.1	63.4	67.9
25-Dec-21	68.5	61.7	66.3
05-Jan-22	67.5	65.3	66.5
19-Jan-22	65.3	63.0	64.3
07-Feb-22	65.2	61.5	63.7
21-Feb-22	60.6	55.5	58.8
07-Mar-22	61.6	58.4	60.3
21-Mar-22	57.3	51.4	55.3
MIN	56.5	51.4	54.7
MAX	74.3	68.6	72.3
MEAN	66.39	61.78	64.7
Noise Standard	75	70	

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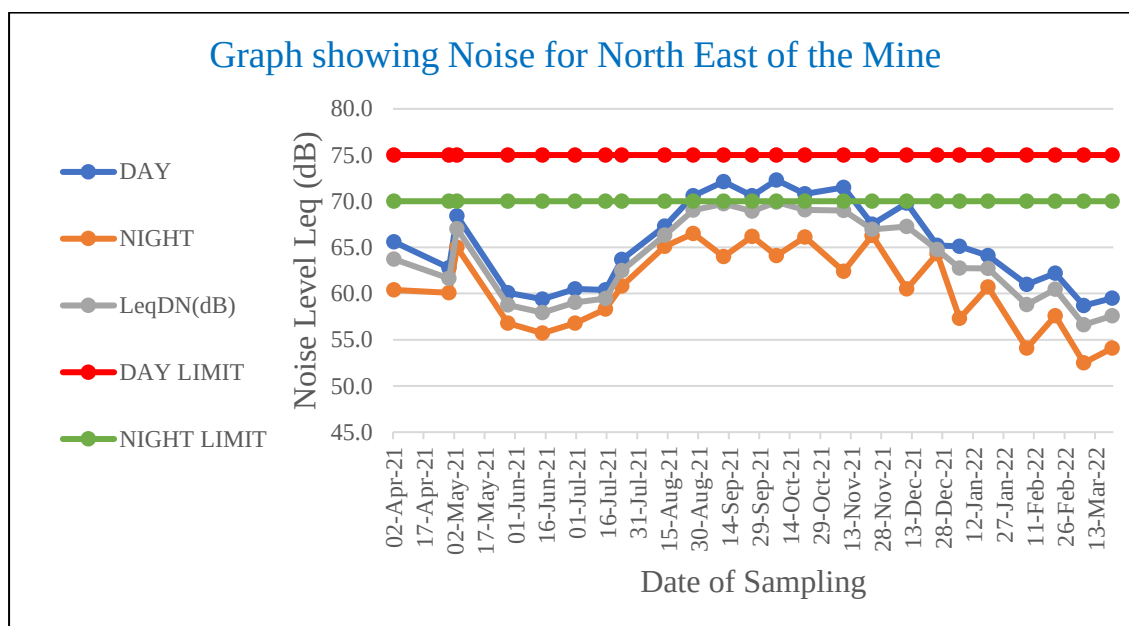
JOB NO.750001

Table: 8.8
Area: Jagannath
Project: Ananta OCP
Monitoring Station: North East of the Mine

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	65.6	60.4	63.7
29-Apr-21	62.8	60.1	61.7
03-May-21	68.4	65.0	67.0
28-May-21	60.1	56.8	58.8
14-Jun-21	59.4	55.7	57.9
30-Jun-21	60.5	56.8	59.0
15-Jul-21	60.4	58.3	59.5
23-Jul-21	63.7	60.8	62.5
13-Aug-21	67.3	65.1	66.3
27-Aug-21	70.6	66.5	69.0
11-Sep-21	72.1	64.0	69.7
25-Sep-21	70.6	66.2	68.9
07-Oct-21	72.3	64.1	69.9
21-Oct-21	70.8	66.1	69.1
09-Nov-21	71.5	62.4	69.0
23-Nov-21	67.5	66.3	66.9
10-Dec-21	69.8	60.5	67.3
25-Dec-21	65.2	64.3	64.8
05-Jan-22	65.1	57.3	62.8
19-Jan-22	64.1	60.7	62.7
07-Feb-22	61.0	54.1	58.8
21-Feb-22	62.2	57.6	60.5
07-Mar-22	58.7	52.5	56.6
21-Mar-22	59.5	54.1	57.6
MIN	58.7	52.5	56.6
MAX	72.3	66.5	70.3
MEAN	65.38	60.65	63.6
Noise Standard	75	70	

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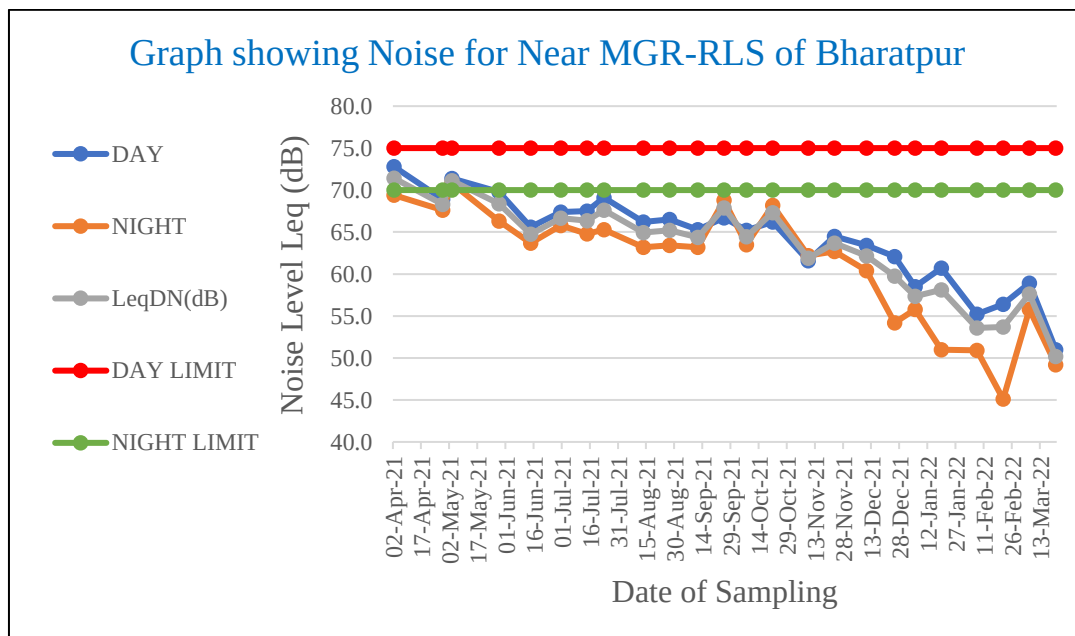
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Table: 8.9
Area: BharatpuR
Project: Bharatpur OCP
Monitoring Station: Near MGR-RLS of Bharatpur

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	72.8	69.4	71.4
28-Apr-21	68.9	67.6	68.3
03-May-21	71.4	70.8	71.1
28-May-21	69.8	66.3	68.4
14-Jun-21	65.6	63.7	64.8
30-Jun-21	67.4	65.8	66.7
14-Jul-21	67.5	64.8	66.4
23-Jul-21	69.1	65.3	67.6
13-Aug-21	66.2	63.2	65.0
27-Aug-21	66.5	63.4	65.2
11-Sep-21	65.3	63.2	64.4
25-Sep-21	66.7	68.8	67.9
07-Oct-21	65.2	63.5	64.4
21-Oct-21	66.2	68.2	67.3
09-Nov-21	61.6	62.2	61.9
23-Nov-21	64.5	62.7	63.7
10-Dec-21	63.4	60.4	62.2
25-Dec-21	62.1	54.2	59.7
05-Jan-22	58.5	55.8	57.4
19-Jan-22	60.7	51.0	58.1
07-Feb-22	55.2	50.9	53.6
21-Feb-22	56.4	45.1	53.7
07-Mar-22	58.9	55.8	57.6
21-Mar-22	51.0	49.2	50.2
MIN	51	45.1	49.0
MAX	72.8	70.8	71.9
MEAN	64.20	61.30	63.0
Noise Standard	75	70	

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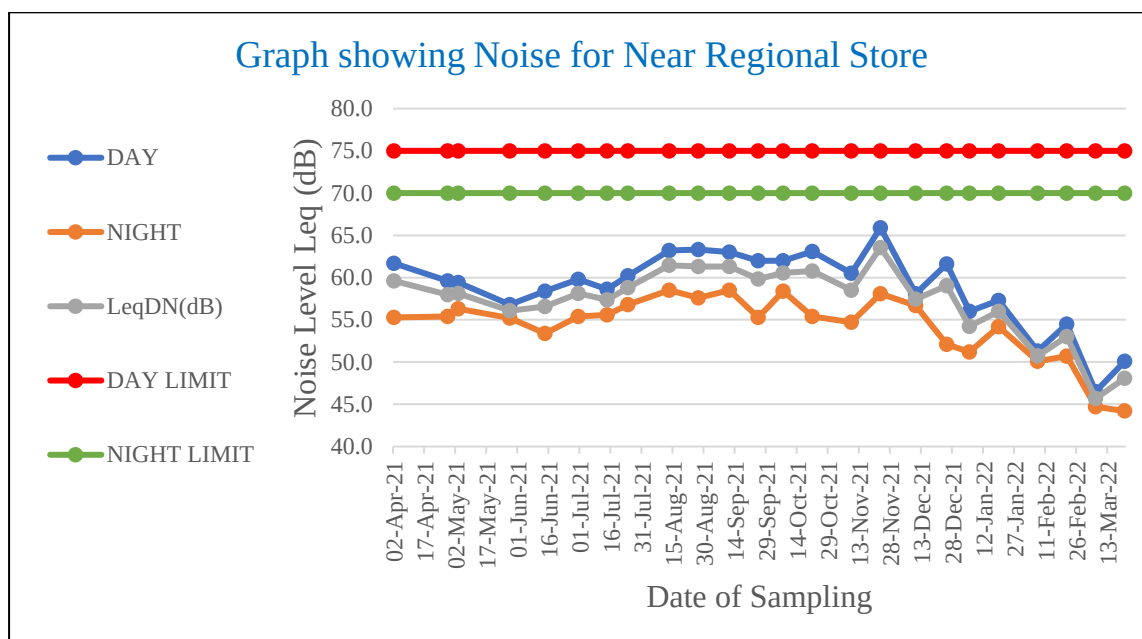
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Table: 8.10
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Near Regional Store

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	61.7	55.3	59.6
28-Apr-21	59.6	55.4	58.0
03-May-21	59.4	56.3	58.1
28-May-21	56.8	55.2	56.1
14-Jun-21	58.4	53.4	56.6
30-Jun-21	59.8	55.4	58.1
14-Jul-21	58.6	55.6	57.4
24-Jul-21	60.2	56.8	58.8
13-Aug-21	63.2	58.5	61.5
27-Aug-21	63.3	57.6	61.3
11-Sep-21	63.0	58.5	61.3
25-Sep-21	62.0	55.3	59.8
07-Oct-21	62.0	58.4	60.6
21-Oct-21	63.1	55.4	60.8
09-Nov-21	60.5	54.7	58.5
23-Nov-21	65.9	58.1	63.6
10-Dec-21	58.1	56.7	57.5
25-Dec-21	61.6	52.1	59.1
05-Jan-22	56.0	51.2	54.2
19-Jan-22	57.3	54.2	56.0
07-Feb-22	51.3	50.1	50.7
21-Feb-22	54.5	50.7	53.0
07-Mar-22	46.5	44.7	45.7
21-Mar-22	50.1	44.2	48.1
MIN	46.5	44.2	45.5
MAX	65.9	58.5	63.6
MEAN	58.87	54.33	57.2
Noise Standard	75	70	

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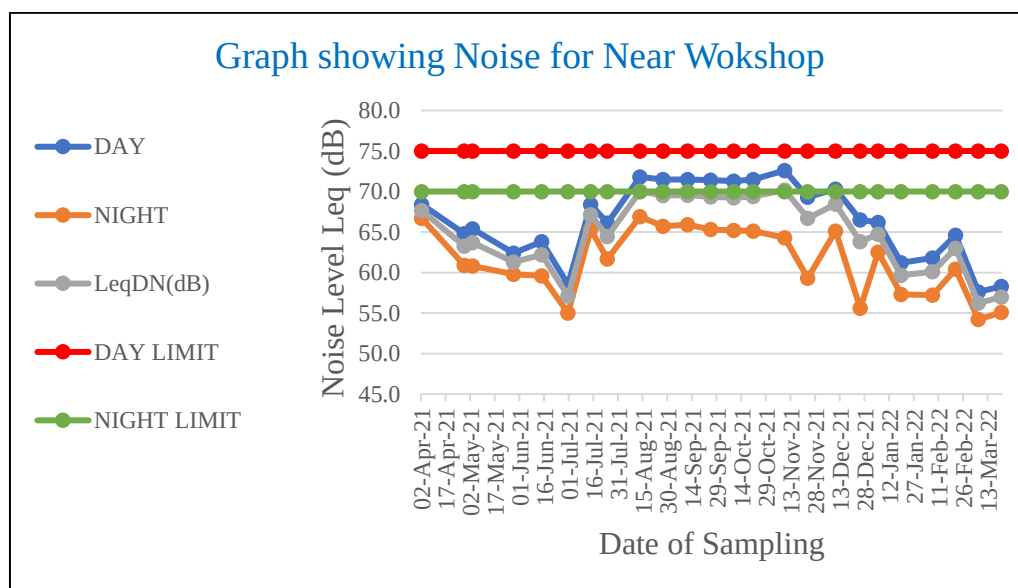
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Table: 8.11
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Near Wokshop

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	68.4	66.7	67.6
28-Apr-21	64.8	60.9	63.3
03-May-21	65.4	60.8	63.7
28-May-21	62.4	59.8	61.3
14-Jun-21	63.8	59.6	62.2
30-Jun-21	58.5	55.0	57.1
14-Jul-21	68.4	65.3	67.1
24-Jul-21	66.1	61.7	64.4
13-Aug-21	71.8	66.9	70.0
27-Aug-21	71.5	65.7	69.5
11-Sep-21	71.5	65.9	69.5
25-Sep-21	71.4	65.3	69.3
09-Oct-21	71.3	65.2	69.2
21-Oct-21	71.5	65.1	69.4
09-Nov-21	72.6	64.3	70.2
23-Nov-21	69.3	59.3	66.7
10-Dec-21	70.3	65.1	68.4
25-Dec-21	66.5	55.6	63.8
05-Jan-22	66.2	62.5	64.7
19-Jan-22	61.2	57.3	59.7
07-Feb-22	61.8	57.2	60.1
21-Feb-22	64.6	60.4	63.0
07-Mar-22	57.6	54.2	56.2
21-Mar-22	58.3	55.1	57.0
MIN	57.6	54.2	56.2
MAX	72.6	66.9	70.6
MEAN	66.47	61.45	64.6
Noise Standard	75	70	

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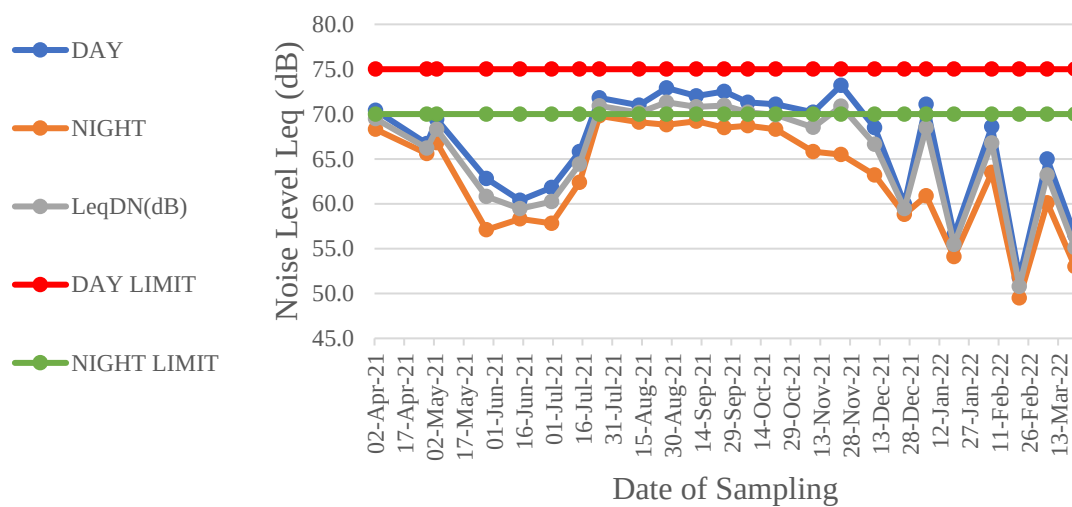
Table: 8.12
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: North West Point of the Mine

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	70.4	68.3	69.5
28-Apr-21	66.7	65.6	66.2
03-May-21	69.4	66.8	68.3
28-May-21	62.8	57.1	60.8
14-Jun-21	60.4	58.3	59.5
30-Jun-21	61.8	57.8	60.2
14-Jul-21	65.8	62.4	64.4
24-Jul-21	71.8	69.8	70.9
13-Aug-21	71.0	69.1	70.2
27-Aug-21	72.9	68.8	71.3
11-Sep-21	72.0	69.2	70.8
25-Sep-21	72.5	68.5	70.9
07-Oct-21	71.3	68.7	70.2
21-Oct-21	71.1	68.3	69.9
09-Nov-21	70.2	65.8	68.5
23-Nov-21	73.2	65.5	70.9
10-Dec-21	68.5	63.2	66.6
25-Dec-21	60.0	58.8	59.4
05-Jan-22	71.1	60.9	68.5
19-Jan-22	56.5	54.1	55.5
07-Feb-22	68.6	63.5	66.8
21-Feb-22	51.8	49.5	50.8
07-Mar-22	65.0	60.1	63.2
21-Mar-22	56.5	53.0	55.1
MIN	51.8	49.5	50.8
MAX	73.2	69.8	71.8
MEAN	66.72	63.05	65.3
Noise Standard	75	70	

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Graph showing Noise for North West Point of the Mine



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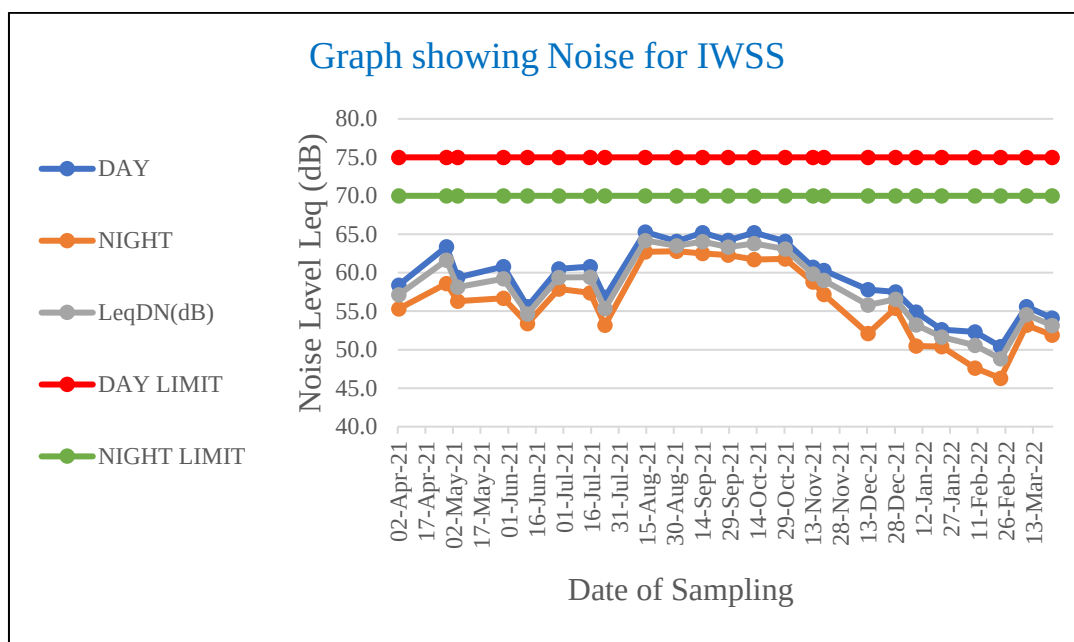
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Table: 8.13
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: IWSS

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	58.4	55.3	57.1
28-Apr-21	63.4	58.6	61.6
04-May-21	59.4	56.3	58.1
29-May-21	60.8	56.7	59.2
11-Jun-21	55.6	53.4	54.6
28-Jun-21	60.5	57.9	59.4
15-Jul-21	60.8	57.4	59.4
23-Jul-21	56.8	53.2	55.4
14-Aug-21	65.3	62.7	64.2
31-Aug-21	64.1	62.8	63.5
14-Sep-21	65.2	62.5	64.1
28-Sep-21	64.2	62.3	63.4
12-Oct-21	65.2	61.7	63.8
29-Oct-21	64.1	61.8	63.1
13-Nov-21	60.7	58.8	59.9
19-Nov-21	60.3	57.2	59.0
13-Dec-21	57.8	52.1	55.8
28-Dec-21	57.5	55.4	56.6
08-Jan-22	54.9	50.5	53.2
22-Jan-22	52.6	50.4	51.6
09-Feb-22	52.3	47.6	50.6
23-Feb-22	50.4	46.3	48.8
09-Mar-22	55.6	53.2	54.6
23-Mar-22	54.1	51.9	53.1
MIN	50.4	46.3	48.8
MAX	65.3	62.8	64.2
MEAN	59.17	56.08	57.9
Noise Standard	75	70	

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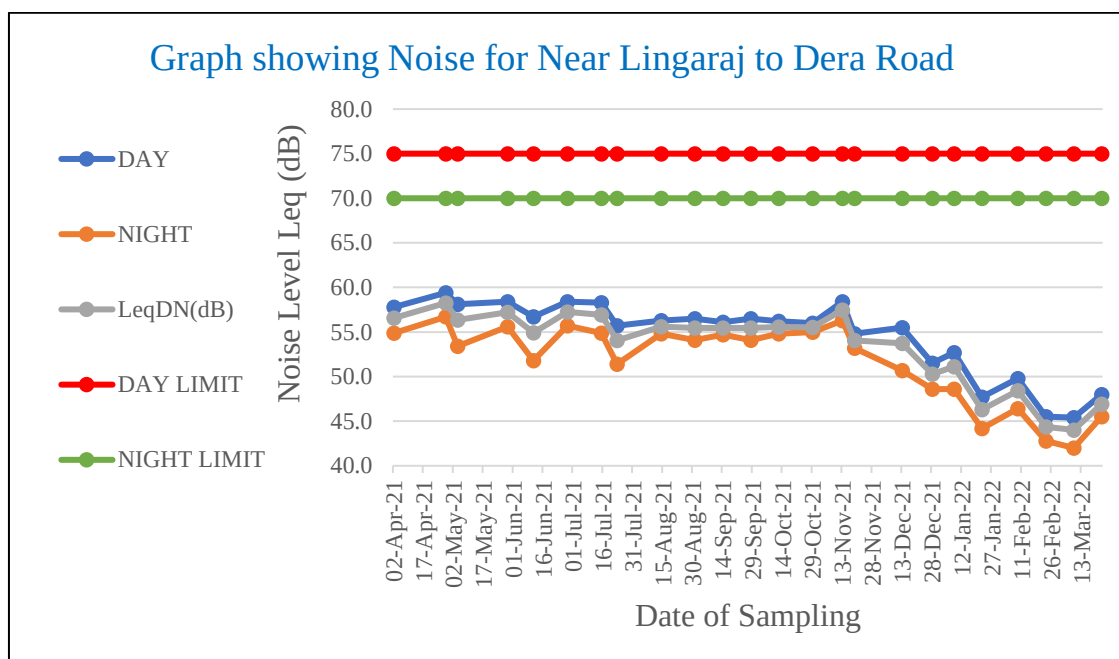
JOB NO.750001

Table: 8.14
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Near Lingaraj to Dera Road

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	57.8	54.9	56.6
28-Apr-21	59.4	56.7	58.3
04-May-21	58.1	53.4	56.4
29-May-21	58.4	55.6	57.2
11-Jun-21	56.7	51.8	54.9
28-Jun-21	58.4	55.7	57.3
15-Jul-21	58.3	54.9	56.9
23-Jul-21	55.7	51.4	54.1
14-Aug-21	56.3	54.8	55.6
31-Aug-21	56.5	54.1	55.5
14-Sep-21	56.1	54.7	55.5
28-Sep-21	56.5	54.1	55.5
12-Oct-21	56.2	54.8	55.6
29-Oct-21	56.0	55.0	55.5
13-Nov-21	58.4	56.3	57.5
19-Nov-21	54.8	53.2	54.1
13-Dec-21	55.5	50.7	53.7
28-Dec-21	51.5	48.6	50.3
08-Jan-22	52.7	48.6	51.1
22-Jan-22	47.7	44.2	46.3
09-Feb-22	49.8	46.4	48.4
23-Feb-22	45.5	42.8	44.4
09-Mar-22	45.4	42.0	44.0
23-Mar-22	48.0	45.5	46.9
MIN	45.4	42	44.0
MAX	59.4	56.7	58.3
MEAN	54.57	51.68	53.4
Noise Standard	75	70	

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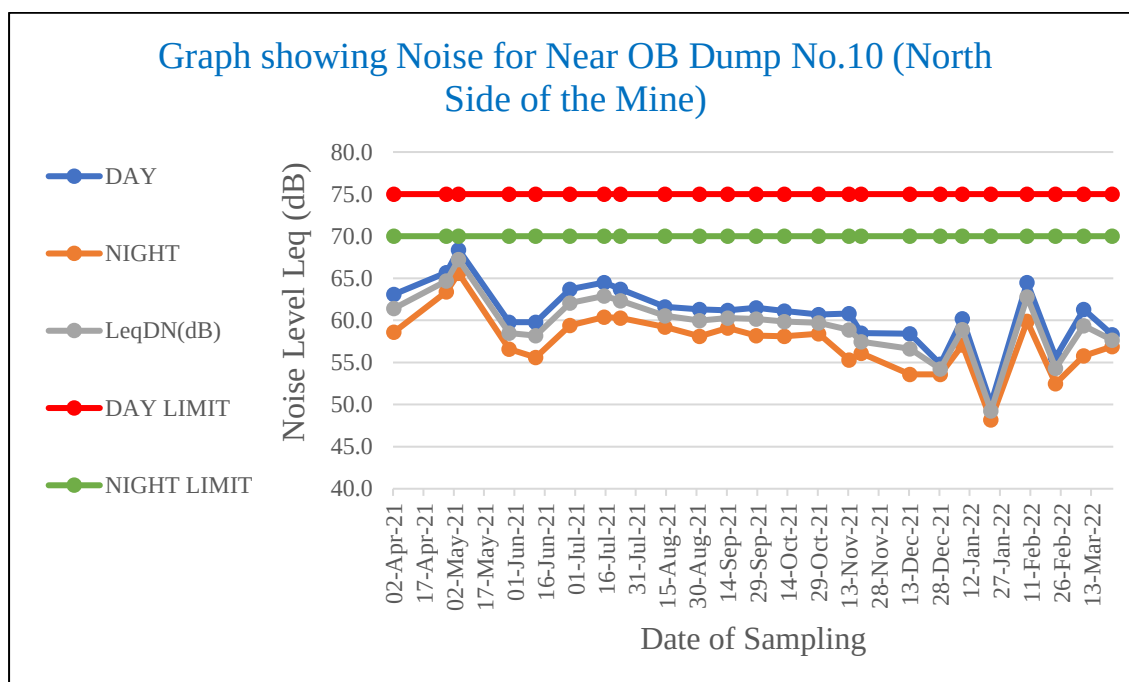
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Table: 8.15
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Near OB Dump No.10 (North Side of the Mine)

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	63.1	58.6	61.4
28-Apr-21	65.7	63.4	64.7
04-May-21	68.4	65.6	67.2
29-May-21	59.8	56.6	58.5
11-Jun-21	59.8	55.6	58.2
28-Jun-21	63.7	59.4	62.1
15-Jul-21	64.5	60.4	62.9
23-Jul-21	63.7	60.3	62.3
14-Aug-21	61.6	59.2	60.6
31-Aug-21	61.3	58.1	60.0
14-Sep-21	61.2	59.1	60.3
28-Sep-21	61.5	58.2	60.2
12-Oct-21	61.1	58.1	59.9
29-Oct-21	60.7	58.4	59.7
13-Nov-21	60.8	55.3	58.9
19-Nov-21	58.5	56.1	57.5
13-Dec-21	58.4	53.6	56.6
28-Dec-21	54.8	53.6	54.2
08-Jan-22	60.2	57.1	58.9
22-Jan-22	50.1	48.2	49.3
09-Feb-22	64.5	59.9	62.8
23-Feb-22	55.6	52.5	54.3
09-Mar-22	61.3	55.8	59.4
23-Mar-22	58.3	56.9	57.7
MIN	50.1	48.2	49.3
MAX	68.4	65.6	67.2
MEAN	60.78	57.50	59.4
Noise Standard	75	70	

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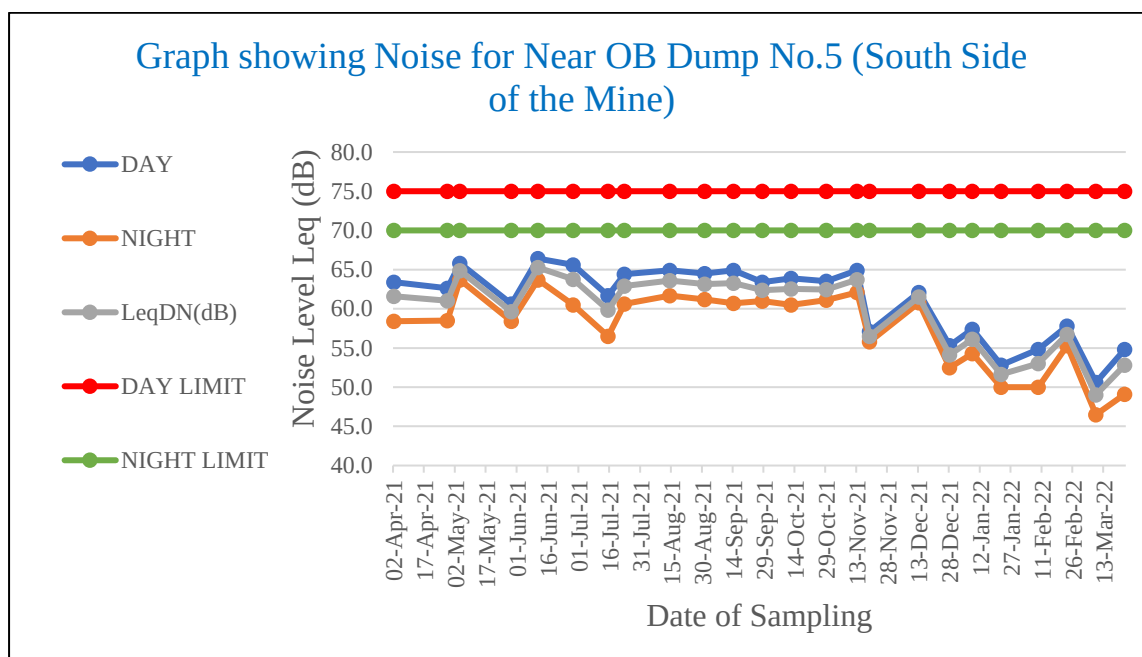
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Table: 8.16
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Near OB Dump No.5 (South Side of the Mine)

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	63.4	58.4	61.6
28-Apr-21	62.6	58.5	61.0
04-May-21	65.8	63.7	64.9
29-May-21	60.6	58.4	59.6
11-Jun-21	66.4	63.7	65.3
28-Jun-21	65.6	60.5	63.8
15-Jul-21	61.7	56.5	59.8
23-Jul-21	64.4	60.6	62.9
14-Aug-21	64.9	61.7	63.6
31-Aug-21	64.5	61.2	63.2
14-Sep-21	64.9	60.7	63.3
28-Sep-21	63.4	61.0	62.4
12-Oct-21	63.9	60.5	62.5
29-Oct-21	63.5	61.1	62.5
13-Nov-21	64.9	62.1	63.7
19-Nov-21	57.1	55.8	56.5
13-Dec-21	62.1	60.8	61.5
28-Dec-21	55.3	52.5	54.1
08-Jan-22	57.4	54.3	56.1
22-Jan-22	52.8	50.0	51.6
09-Feb-22	54.8	50.0	53.0
23-Feb-22	57.8	55.3	56.7
09-Mar-22	50.6	46.5	49.0
23-Mar-22	54.8	49.1	52.8
MIN	50.6	46.5	49.0
MAX	66.4	63.7	65.3
MEAN	60.97	57.62	59.6
Noise Standard	75	70	

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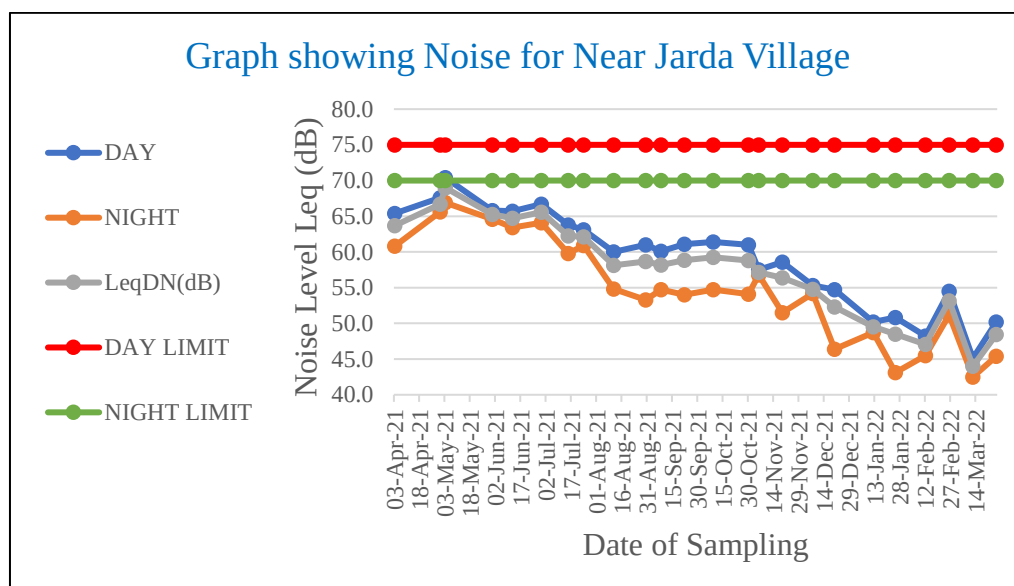
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Table: 8.17
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Near Jarda Village

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	65.4	60.8	63.7
30-Apr-21	67.6	65.6	66.7
03-May-21	70.4	66.9	69.0
31-May-21	65.8	64.6	65.2
12-Jun-21	65.7	63.4	64.7
29-Jun-21	66.7	64.1	65.6
15-Jul-21	63.8	59.8	62.2
24-Jul-21	63.1	60.9	62.1
11-Aug-21	60.0	54.8	58.1
30-Aug-21	61.0	53.3	58.7
08-Sep-21	60.1	54.7	58.2
22-Sep-21	61.1	54.0	58.9
09-Oct-21	61.4	54.7	59.2
30-Oct-21	61.0	54.1	58.8
05-Nov-21	57.5	56.8	57.2
19-Nov-21	58.6	51.5	56.4
07-Dec-21	55.3	54.2	54.8
20-Dec-21	54.7	46.4	52.3
12-Jan-22	50.2	48.7	49.5
25-Jan-22	50.8	43.1	48.5
12-Feb-22	48.2	45.5	47.1
26-Feb-22	54.5	51.2	53.2
12-Mar-22	45.1	42.5	44.0
26-Mar-22	50.2	45.4	48.4
MIN	45.1	42.5	44.0
MAX	70.4	66.9	69.0
MEAN	59.09	54.88	57.5
Noise Standard	75	70	

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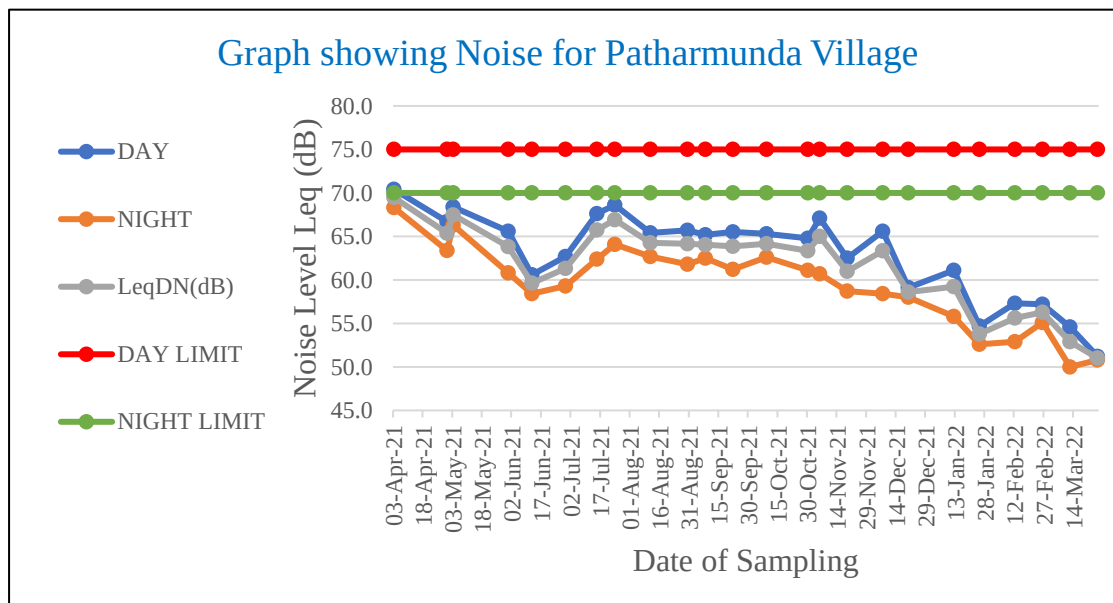
JOB NO.750001

Table: 8.18
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Patharmunda Village

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	70.4	68.3	69.5
30-Apr-21	66.7	63.4	65.4
03-May-21	68.4	66.3	67.5
31-May-21	65.6	60.8	63.8
12-Jun-21	60.6	58.4	59.6
29-Jun-21	62.7	59.3	61.3
15-Jul-21	67.6	62.4	65.7
24-Jul-21	68.6	64.1	66.9
11-Aug-21	65.4	62.7	64.3
30-Aug-21	65.7	61.8	64.2
08-Sep-21	65.2	62.5	64.1
22-Sep-21	65.5	61.2	63.9
09-Oct-21	65.3	62.6	64.2
30-Oct-21	64.8	61.1	63.3
05-Nov-21	67.1	60.7	65.0
19-Nov-21	62.5	58.7	61.0
07-Dec-21	65.6	58.4	63.3
20-Dec-21	59.1	58.0	58.6
12-Jan-22	61.1	55.8	59.2
25-Jan-22	54.7	52.6	53.8
12-Feb-22	57.3	52.9	55.6
26-Feb-22	57.2	55.1	56.3
12-Mar-22	54.6	50.0	52.9
26-Mar-22	51.2	50.8	51.0
MIN	51.2	50	50.6
MAX	70.4	68.3	69.5
MEAN	63.04	59.50	61.6
Noise Standard	75	70	

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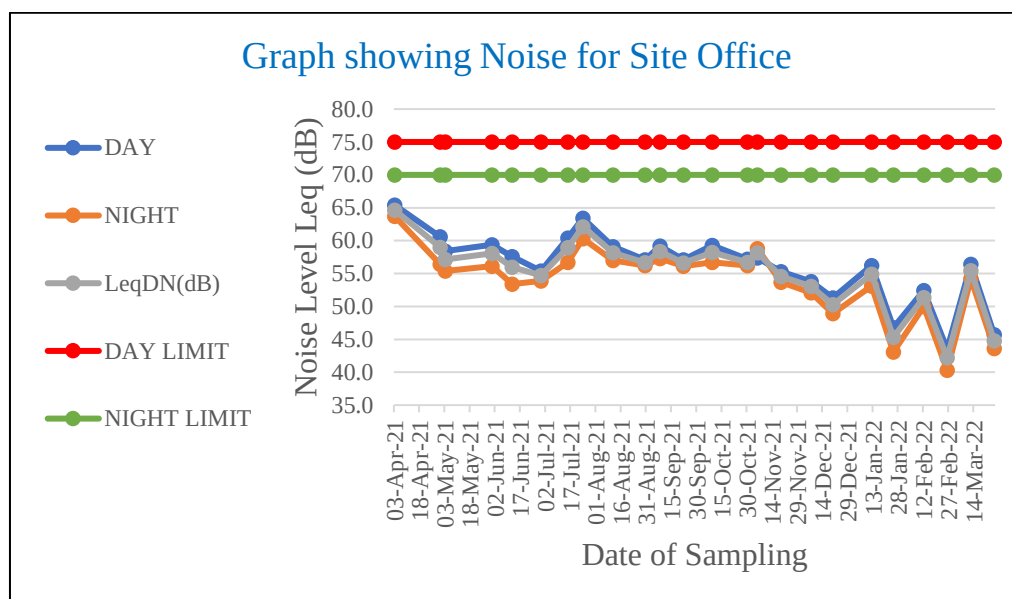
JOB NO.750001

Table: 8.19
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Site Office

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	65.4	63.7	64.6
30-Apr-21	60.6	56.4	59.0
03-May-21	58.4	55.4	57.2
31-May-21	59.4	56.1	58.1
12-Jun-21	57.6	53.4	56.0
29-Jun-21	55.4	53.9	54.7
15-Jul-21	60.4	56.7	58.9
24-Jul-21	63.4	60.3	62.1
11-Aug-21	59.1	57.0	58.2
30-Aug-21	57.1	56.2	56.7
08-Sep-21	59.2	57.3	58.4
22-Sep-21	57.1	56.1	56.6
09-Oct-21	59.3	56.7	58.2
30-Oct-21	57.2	56.2	56.7
05-Nov-21	57.4	58.8	58.2
19-Nov-21	55.3	53.7	54.6
07-Dec-21	53.8	52.1	53.0
20-Dec-21	51.3	48.9	50.3
12-Jan-22	56.2	53.1	54.9
25-Jan-22	46.8	43.1	45.3
12-Feb-22	52.4	50.0	51.4
26-Feb-22	43.5	40.3	42.2
12-Mar-22	56.4	54.2	55.4
26-Mar-22	45.7	43.6	44.8
MIN	43.5	40.3	42.2
MAX	65.4	63.7	64.6
MEAN	56.18	53.88	55.2
Noise Standard	75	70	

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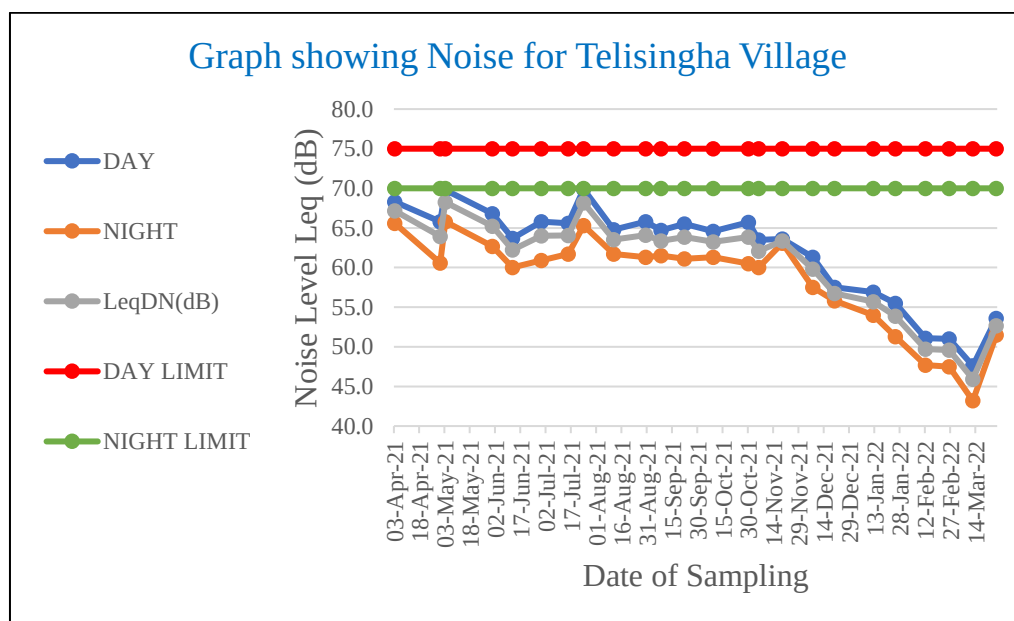
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Table: 8.20
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Telisingha Village

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	68.3	65.6	67.2
30-Apr-21	65.8	60.6	63.9
03-May-21	69.8	65.8	68.2
31-May-21	66.8	62.7	65.2
12-Jun-21	63.7	60.0	62.2
29-Jun-21	65.8	60.9	64.0
15-Jul-21	65.6	61.7	64.1
24-Jul-21	69.9	65.3	68.2
11-Aug-21	64.8	61.7	63.5
30-Aug-21	65.8	61.3	64.1
08-Sep-21	64.7	61.5	63.4
22-Sep-21	65.5	61.1	63.8
09-Oct-21	64.6	61.3	63.3
30-Oct-21	65.7	60.5	63.8
05-Nov-21	63.5	60.0	62.1
19-Nov-21	63.6	63.1	63.4
07-Dec-21	61.3	57.5	59.8
20-Dec-21	57.5	55.8	56.7
12-Jan-22	56.9	54.0	55.7
25-Jan-22	55.5	51.3	53.9
12-Feb-22	51.1	47.7	49.7
26-Feb-22	51.0	47.5	49.6
12-Mar-22	47.6	43.2	45.9
26-Mar-22	53.6	51.5	52.7
MIN	47.6	43.2	45.9
MAX	69.9	65.8	68.3
MEAN	62.02	58.40	60.6
Noise Standard	75	70	

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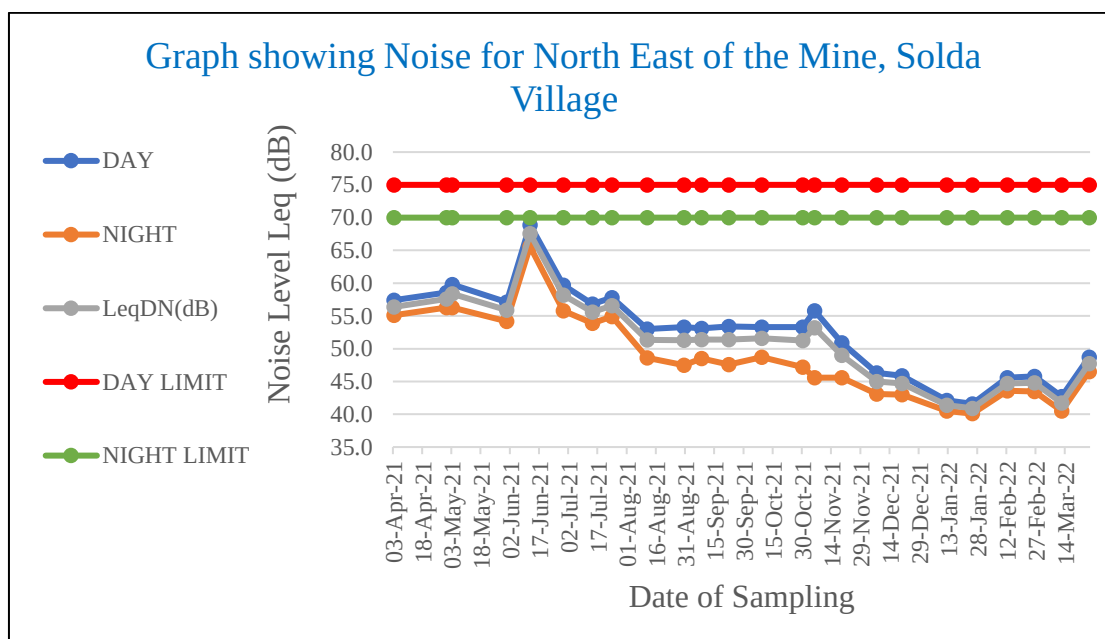
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Table: 8.21
Area: Hingula
Project: Hingula OCP
Monitoring Station: North East of the Mine, Solda Village

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	57.4	55.1	56.4
30-Apr-21	58.6	56.3	57.6
03-May-21	59.8	56.3	58.4
31-May-21	57.1	54.2	55.9
12-Jun-21	68.9	65.6	67.6
29-Jun-21	59.7	55.8	58.2
14-Jul-21	56.8	53.9	55.6
24-Jul-21	57.8	54.9	56.6
11-Aug-21	53.0	48.6	51.3
30-Aug-21	53.3	47.5	51.3
08-Sep-21	53.1	48.5	51.4
22-Sep-21	53.4	47.6	51.4
09-Oct-21	53.3	48.7	51.6
30-Oct-21	53.3	47.2	51.2
05-Nov-21	55.8	45.6	53.2
19-Nov-21	50.9	45.6	49.0
07-Dec-21	46.3	43.1	45.0
20-Dec-21	45.9	43.0	44.7
12-Jan-22	42.1	40.5	41.4
25-Jan-22	41.6	40.1	40.9
12-Feb-22	45.6	43.6	44.7
26-Feb-22	45.8	43.5	44.8
12-Mar-22	42.7	40.5	41.7
26-Mar-22	48.7	46.5	47.7
MIN	41.6	40.1	40.9
MAX	68.9	65.6	67.6
MEAN	52.54	48.84	51.1
Noise Standard	75	70	

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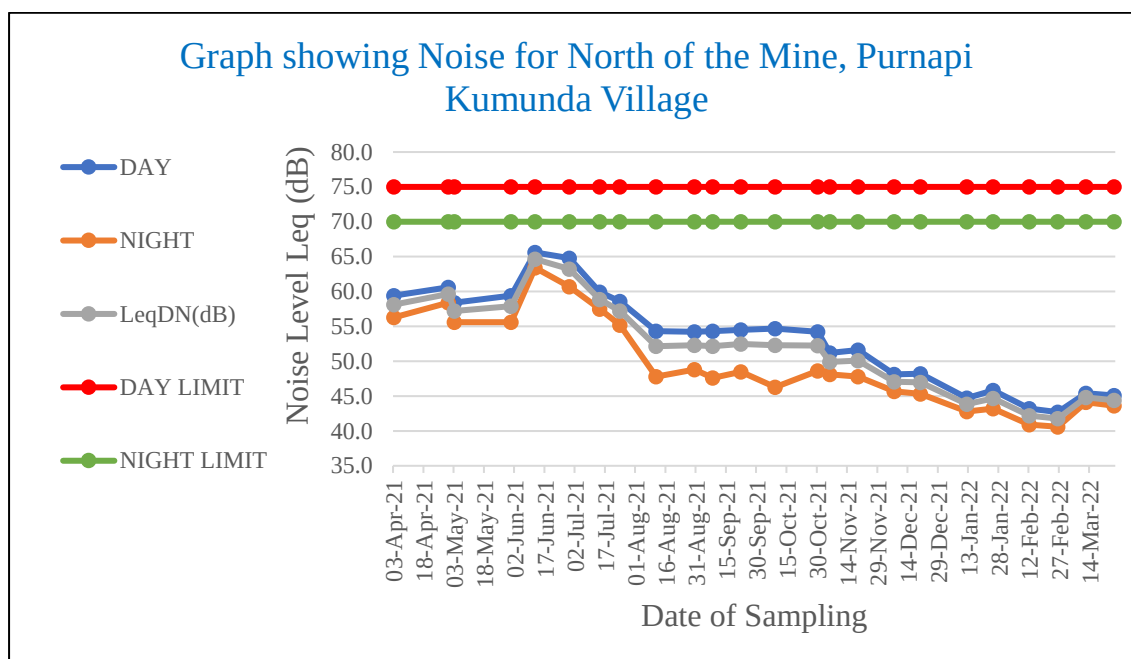
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Table: 8.22
Area: Hingula
Project: Hingula OCP
Monitoring Station: North of the Mine, Purnapi Kumunda Village

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	59.4	56.3	58.1
30-Apr-21	60.6	58.4	59.6
03-May-21	58.4	55.6	57.2
31-May-21	59.4	55.6	57.9
12-Jun-21	65.6	63.4	64.6
29-Jun-21	64.8	60.7	63.2
14-Jul-21	59.9	57.5	58.9
24-Jul-21	58.6	55.2	57.2
11-Aug-21	54.3	47.8	52.2
30-Aug-21	54.2	48.8	52.3
08-Sep-21	54.3	47.6	52.1
22-Sep-21	54.5	48.5	52.5
09-Oct-21	54.7	46.3	52.3
30-Oct-21	54.2	48.6	52.2
05-Nov-21	51.2	48.1	49.9
19-Nov-21	51.6	47.8	50.1
07-Dec-21	48.1	45.7	47.1
20-Dec-21	48.2	45.3	47.0
12-Jan-22	44.7	42.8	43.9
25-Jan-22	45.8	43.2	44.7
12-Feb-22	43.2	40.9	42.2
26-Feb-22	42.7	40.6	41.8
12-Mar-22	45.4	44.1	44.8
26-Mar-22	45.1	43.6	44.4
MIN	42.7	40.6	41.8
MAX	65.6	63.4	64.6
MEAN	53.29	49.68	51.8
Noise Standard	75	70	

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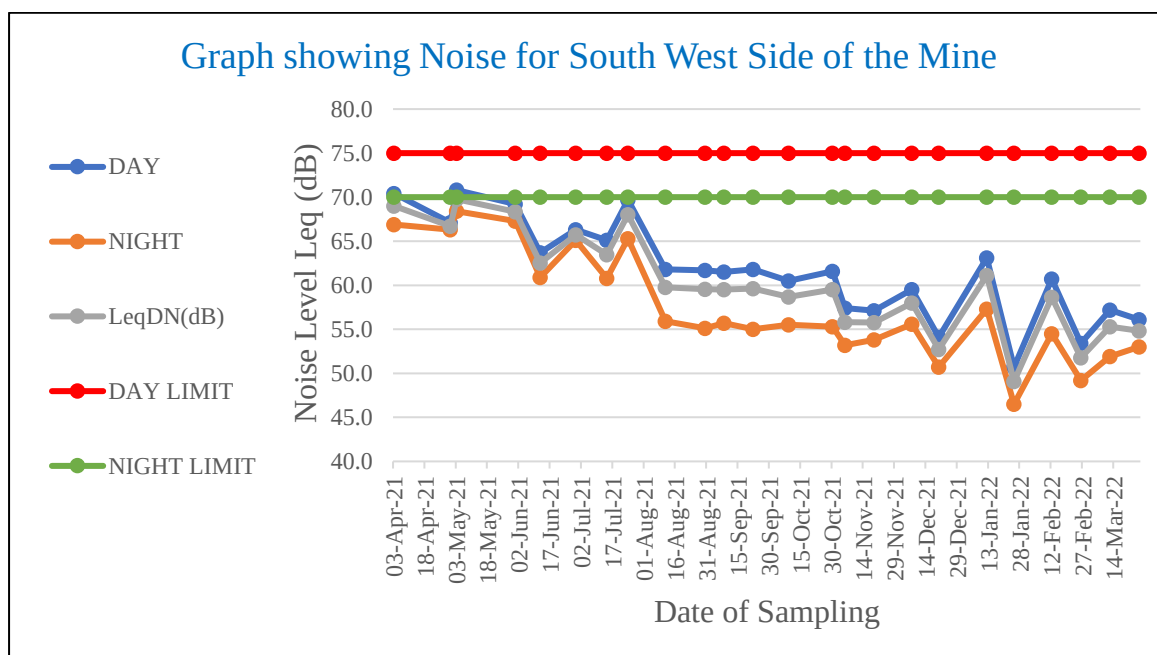
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Table: 8.23
Area: Hingula
Project: Hingula OCP
Monitoring Station: South West Side of the Mine

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	70.4	66.9	69.0
30-Apr-21	67.1	66.3	66.7
03-May-21	70.8	68.4	69.8
31-May-21	69.2	67.3	68.4
12-Jun-21	63.7	60.9	62.5
29-Jun-21	66.3	65.1	65.7
14-Jul-21	65.1	60.8	63.5
24-Jul-21	69.7	65.3	68.0
11-Aug-21	61.8	55.9	59.8
30-Aug-21	61.7	55.1	59.5
08-Sep-21	61.5	55.7	59.5
22-Sep-21	61.8	55.0	59.6
09-Oct-21	60.5	55.5	58.7
30-Oct-21	61.6	55.3	59.5
05-Nov-21	57.4	53.2	55.8
19-Nov-21	57.1	53.8	55.8
07-Dec-21	59.5	55.6	58.0
20-Dec-21	54.1	50.7	52.7
12-Jan-22	63.1	57.3	61.1
25-Jan-22	50.7	46.5	49.1
12-Feb-22	60.7	54.5	58.6
26-Feb-22	53.4	49.2	51.8
12-Mar-22	57.2	51.9	55.3
26-Mar-22	56.1	53.0	54.8
MIN	50.7	46.5	49.1
MAX	70.8	68.4	69.8
MEAN	61.69	57.47	60.1
Noise Standard	75	70	

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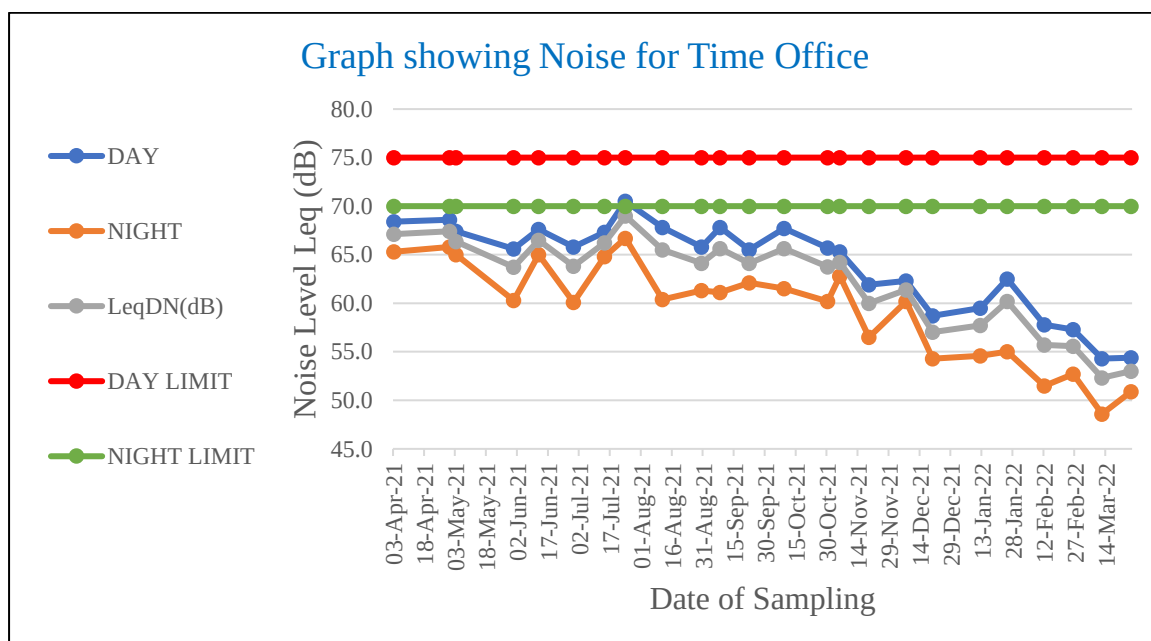
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Table: 8.24
Area: Hingula
Project: Hingula OCP
Monitoring Station: Time Office

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	68.4	65.3	67.1
30-Apr-21	68.6	65.8	67.4
03-May-21	67.4	65.0	66.4
31-May-21	65.6	60.3	63.7
12-Jun-21	67.6	65.0	66.5
29-Jun-21	65.8	60.1	63.8
14-Jul-21	67.3	64.8	66.2
24-Jul-21	70.5	66.7	69.0
11-Aug-21	67.8	60.4	65.5
30-Aug-21	65.8	61.3	64.1
08-Sep-21	67.8	61.1	65.6
22-Sep-21	65.5	62.1	64.1
09-Oct-21	67.7	61.5	65.6
30-Oct-21	65.7	60.2	63.8
05-Nov-21	65.3	62.8	64.2
19-Nov-21	61.9	56.5	60.0
07-Dec-21	62.3	60.2	61.4
20-Dec-21	58.7	54.3	57.0
12-Jan-22	59.5	54.6	57.7
25-Jan-22	62.5	55.0	60.2
12-Feb-22	57.8	51.5	55.7
26-Feb-22	57.3	52.7	55.6
12-Mar-22	54.3	48.6	52.3
26-Mar-22	54.4	50.9	53.0
MIN	54.3	48.6	52.3
MAX	70.5	66.7	69.0
MEAN	63.98	59.45	62.3
Noise Standard	75	70	

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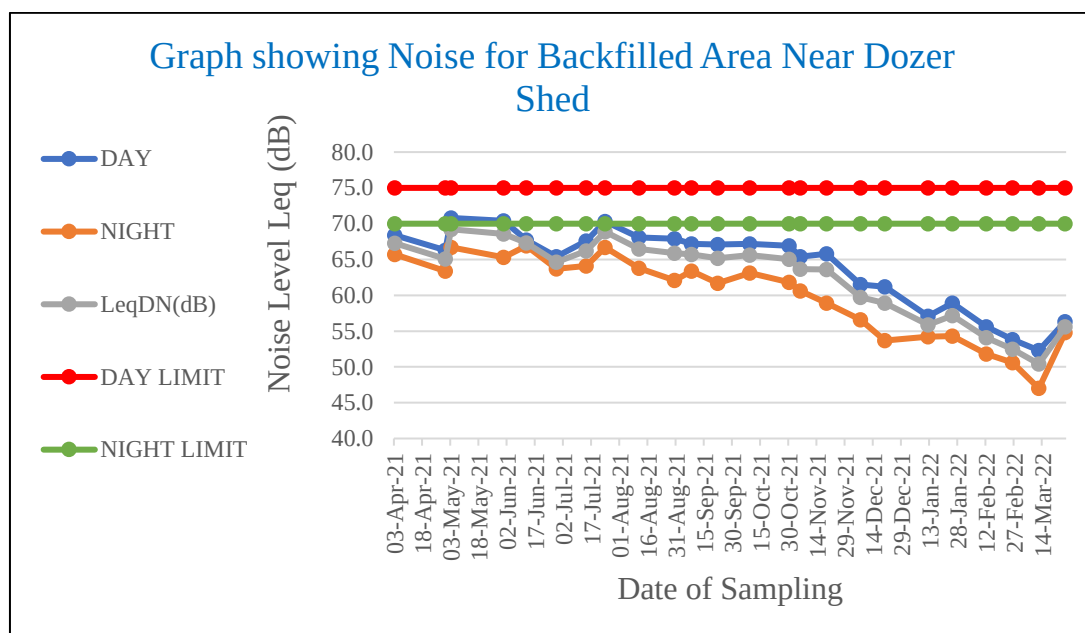
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Table: 8.25
Area: Hingula
Project: Balaram OCP
Monitoring Station: Backfilled Area Near Dozer Shed

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	68.4	65.7	67.3
30-Apr-21	66.3	63.4	65.1
03-May-21	70.8	66.7	69.2
31-May-21	70.4	65.3	68.6
12-Jun-21	67.7	66.9	67.3
28-Jun-21	65.4	63.7	64.6
14-Jul-21	67.6	64.1	66.2
24-Jul-21	70.3	66.7	68.9
11-Aug-21	68.1	63.8	66.5
30-Aug-21	67.9	62.1	65.9
08-Sep-21	67.2	63.4	65.7
22-Sep-21	67.1	61.7	65.2
09-Oct-21	67.2	63.1	65.6
30-Oct-21	66.9	61.8	65.1
05-Nov-21	65.4	60.6	63.6
19-Nov-21	65.8	58.9	63.6
07-Dec-21	61.5	56.6	59.7
20-Dec-21	61.2	53.7	58.9
12-Jan-22	57.1	54.2	55.9
25-Jan-22	58.9	54.3	57.2
12-Feb-22	55.6	51.8	54.1
26-Feb-22	53.8	50.6	52.5
12-Mar-22	52.3	47.0	50.4
26-Mar-22	56.3	54.8	55.6
MIN	52.3	47	50.4
MAX	70.8	66.9	69.3
MEAN	64.13	60.04	62.6
Noise Standard	75	70	

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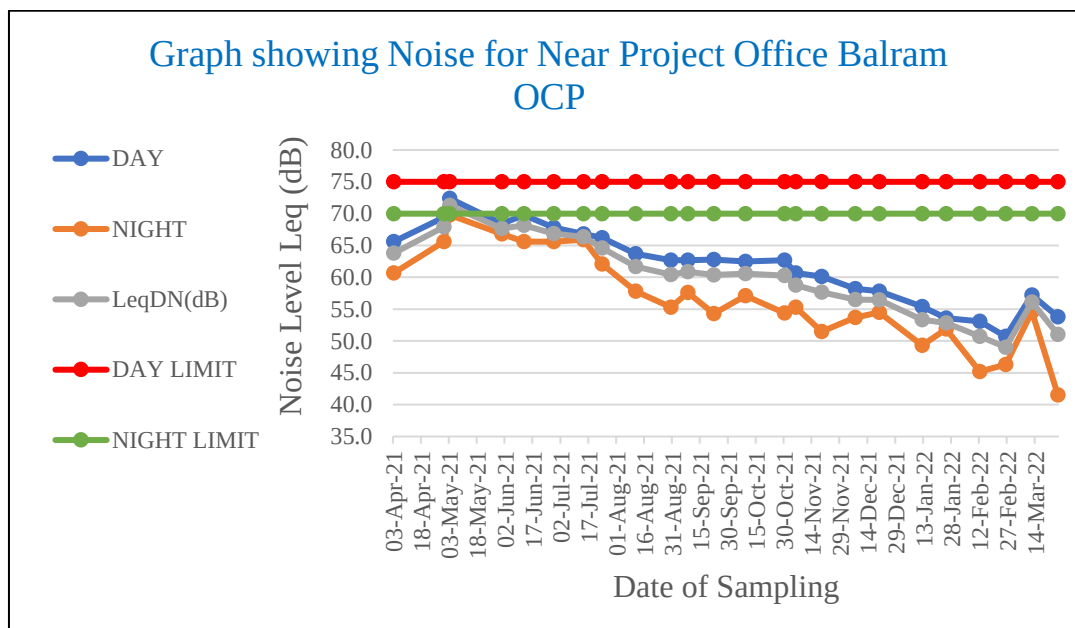
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Table: 8.26
Area: Hingula
Project: Balaram OCP
Monitoring Station: Near Project Office Balram OCP

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	65.6	60.7	63.8
30-Apr-21	69.4	65.6	67.9
03-May-21	72.4	69.8	71.3
31-May-21	68.4	66.8	67.7
12-Jun-21	69.8	65.6	68.2
28-Jun-21	67.8	65.6	66.8
14-Jul-21	66.8	65.9	66.4
24-Jul-21	66.2	62.1	64.6
11-Aug-21	63.7	57.8	61.7
30-Aug-21	62.7	55.3	60.4
08-Sep-21	62.7	57.6	60.9
22-Sep-21	62.8	54.3	60.4
09-Oct-21	62.5	57.1	60.6
30-Oct-21	62.7	54.4	60.3
05-Nov-21	60.7	55.3	58.8
19-Nov-21	60.1	51.5	57.7
07-Dec-21	58.2	53.7	56.5
20-Dec-21	57.8	54.5	56.5
12-Jan-22	55.4	49.3	53.3
25-Jan-22	53.6	51.9	52.8
12-Feb-22	53.1	45.2	50.7
26-Feb-22	50.7	46.3	49.0
12-Mar-22	57.2	54.6	56.1
26-Mar-22	53.8	41.5	51.0
MIN	50.7	41.5	48.2
MAX	72.4	69.8	71.3
MEAN	61.84	56.77	60.0
Noise Standard	75	70	

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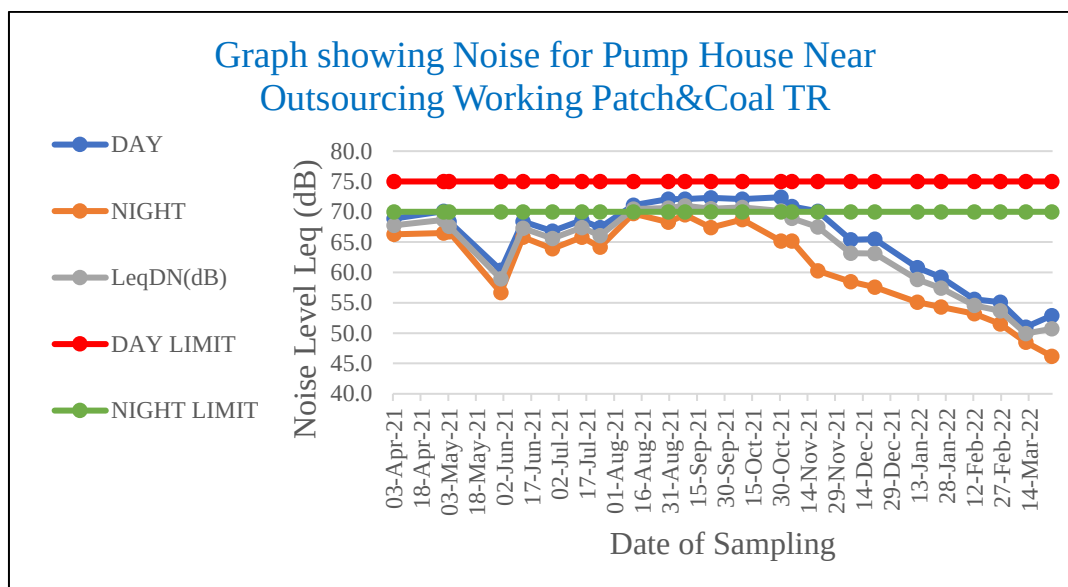
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Table: 8.27
Area: Hingula
Project: Balaram OCP
Monitoring Station: Pump House Near Outsourcing Working Patch&Coal
 TR

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	68.9	66.3	67.8
30-Apr-21	70.1	66.5	68.7
03-May-21	68.4	66.7	67.6
31-May-21	60.4	56.7	58.9
12-Jun-21	68.4	65.8	67.3
28-Jun-21	66.8	63.9	65.6
14-Jul-21	68.6	65.8	67.4
24-Jul-21	67.4	64.2	66.1
11-Aug-21	71.1	69.7	70.5
30-Aug-21	72.1	68.3	70.6
08-Sep-21	72.1	69.5	71.0
22-Sep-21	72.3	67.4	70.5
09-Oct-21	72.1	68.7	70.7
30-Oct-21	72.4	65.2	70.1
05-Nov-21	70.9	65.2	68.9
19-Nov-21	70.1	60.3	67.5
07-Dec-21	65.4	58.5	63.2
20-Dec-21	65.5	57.6	63.1
12-Jan-22	60.8	55.1	58.8
25-Jan-22	59.2	54.3	57.4
12-Feb-22	55.6	53.2	54.6
26-Feb-22	55.1	51.5	53.7
12-Mar-22	51.0	48.5	49.9
26-Mar-22	52.9	46.2	50.7
MIN	51	46.2	49.2
MAX	72.4	69.7	71.3
MEAN	65.73	61.46	64.1
Noise Standard	75	70	

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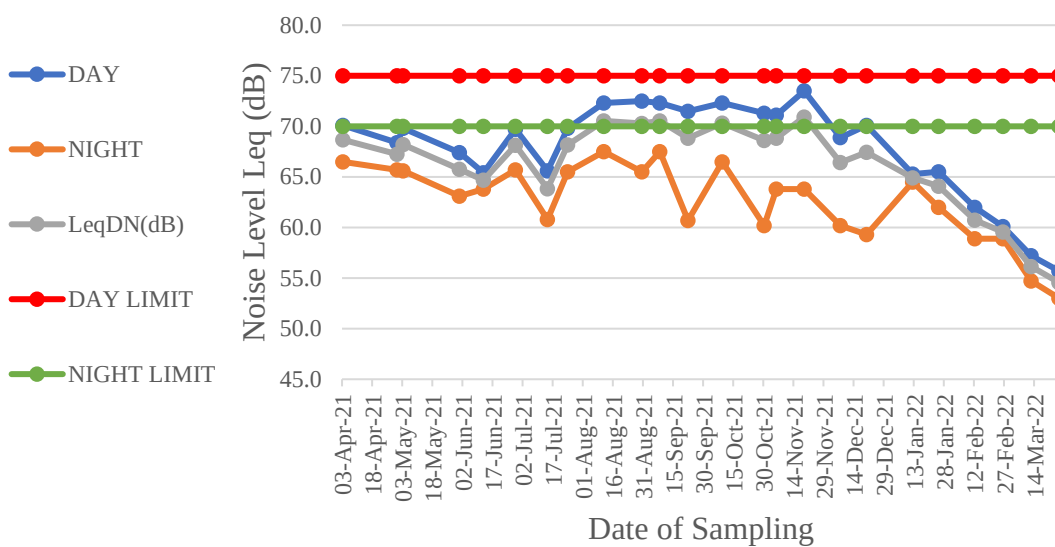
Table: 8.28
Area: Hingula
Project: Balaram OCP
Monitoring Station: South West of the Mine

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	70.1	66.5	68.7
30-Apr-21	68.4	65.7	67.3
03-May-21	69.8	65.6	68.2
31-May-21	67.4	63.1	65.8
12-Jun-21	65.4	63.8	64.7
28-Jun-21	69.7	65.7	68.1
14-Jul-21	65.6	60.8	63.8
24-Jul-21	69.8	65.5	68.2
11-Aug-21	72.3	67.5	70.5
30-Aug-21	72.5	65.5	70.3
08-Sep-21	72.3	67.5	70.5
22-Sep-21	71.5	60.7	68.8
09-Oct-21	72.3	66.5	70.3
30-Oct-21	71.3	60.2	68.6
05-Nov-21	71.1	63.8	68.8
19-Nov-21	73.5	63.8	70.9
07-Dec-21	68.9	60.2	66.4
20-Dec-21	70.1	59.3	67.4
12-Jan-22	65.3	64.5	64.9
25-Jan-22	65.5	62.0	64.1
12-Feb-22	62.0	58.9	60.7
26-Feb-22	60.1	58.9	59.5
12-Mar-22	57.2	54.7	56.1
26-Mar-22	55.7	53.0	54.6
MIN	55.7	53	54.6
MAX	73.5	67.5	71.5
MEAN	67.83	62.65	66.0
Noise Standard	75	70	

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Graph showing Noise for South West of the Mine



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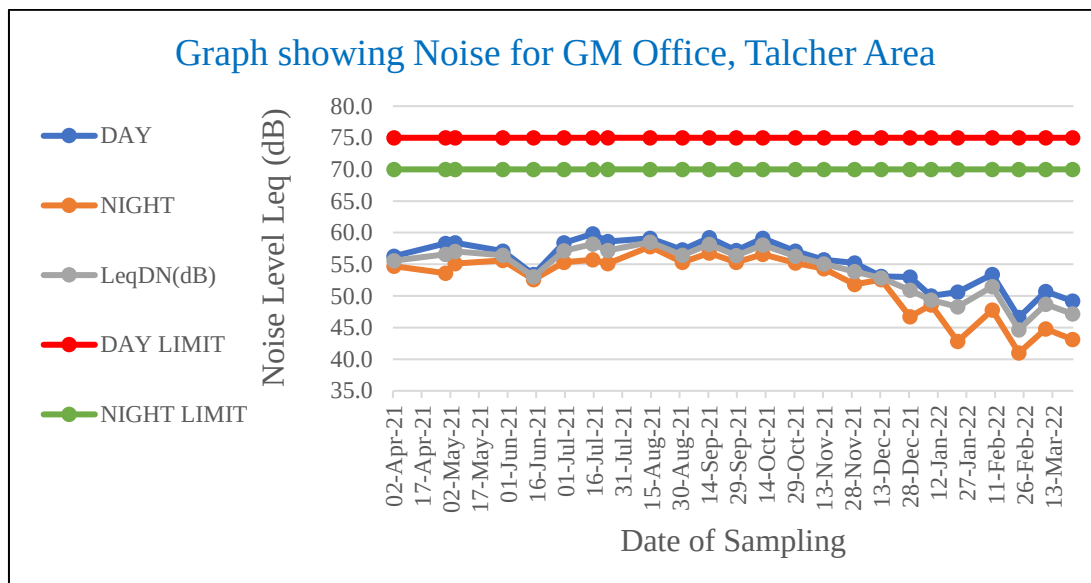
JOB NO.750001

Table: 8.29
Area: Talcher
Project: Talcher Colliery
Monitoring Station: GM Office, Talcher Area

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	56.3	54.7	55.6
29-Apr-21	58.3	53.6	56.6
04-May-21	58.4	55.1	57.1
29-May-21	57.1	55.6	56.4
14-Jun-21	53.4	52.6	53.0
30-Jun-21	58.4	55.3	57.1
15-Jul-21	59.8	55.7	58.2
23-Jul-21	58.6	55.1	57.2
14-Aug-21	59.1	57.8	58.5
31-Aug-21	57.3	55.3	56.4
14-Sep-21	59.2	56.8	58.2
28-Sep-21	57.2	55.3	56.4
12-Oct-21	59.1	56.6	58.0
29-Oct-21	57.1	55.2	56.3
13-Nov-21	55.7	54.3	55.1
29-Nov-21	55.2	51.8	53.8
13-Dec-21	53.1	52.6	52.9
28-Dec-21	53.0	46.7	50.9
08-Jan-22	50.0	48.6	49.4
22-Jan-22	50.6	42.8	48.3
09-Feb-22	53.4	47.8	51.4
23-Feb-22	46.6	41.0	44.6
09-Mar-22	50.7	44.8	48.7
23-Mar-22	49.2	43.1	47.1
MIN	46.6	41	44.6
MAX	59.8	57.8	58.9
MEAN	55.28	52.01	53.9
Noise Standard	75	70	

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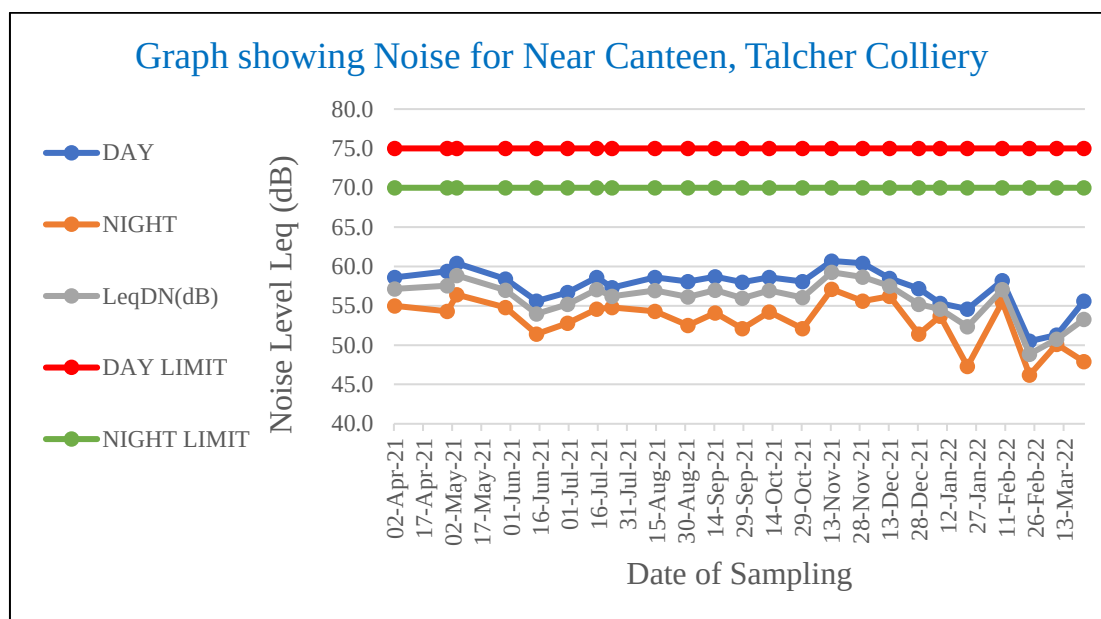
JOB NO.750001

Table: 8.30
Area: Talcher
Project: Talcher Colliery
Monitoring Station: Near Canteen, Talcher Colliery

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	58.6	55.0	57.2
29-Apr-21	59.4	54.3	57.6
04-May-21	60.4	56.4	58.8
29-May-21	58.4	54.8	57.0
14-Jun-21	55.6	51.4	54.0
30-Jun-21	56.7	52.8	55.2
15-Jul-21	58.6	54.6	57.0
23-Jul-21	57.3	54.8	56.2
14-Aug-21	58.6	54.3	57.0
31-Aug-21	58.1	52.5	56.1
14-Sep-21	58.7	54.1	57.0
28-Sep-21	58.0	52.1	56.0
12-Oct-21	58.6	54.2	56.9
29-Oct-21	58.1	52.1	56.1
13-Nov-21	60.7	57.1	59.3
29-Nov-21	60.4	55.6	58.6
13-Dec-21	58.5	56.2	57.5
28-Dec-21	57.2	51.4	55.2
08-Jan-22	55.3	53.7	54.6
22-Jan-22	54.6	47.3	52.3
09-Feb-22	58.2	55.5	57.1
23-Feb-22	50.5	46.2	48.9
09-Mar-22	51.3	50.1	50.7
23-Mar-22	55.6	47.9	53.3
MIN	50.5	46.2	48.9
MAX	60.7	57.1	59.3
MEAN	57.39	53.10	55.8
Noise Standard	75	70	

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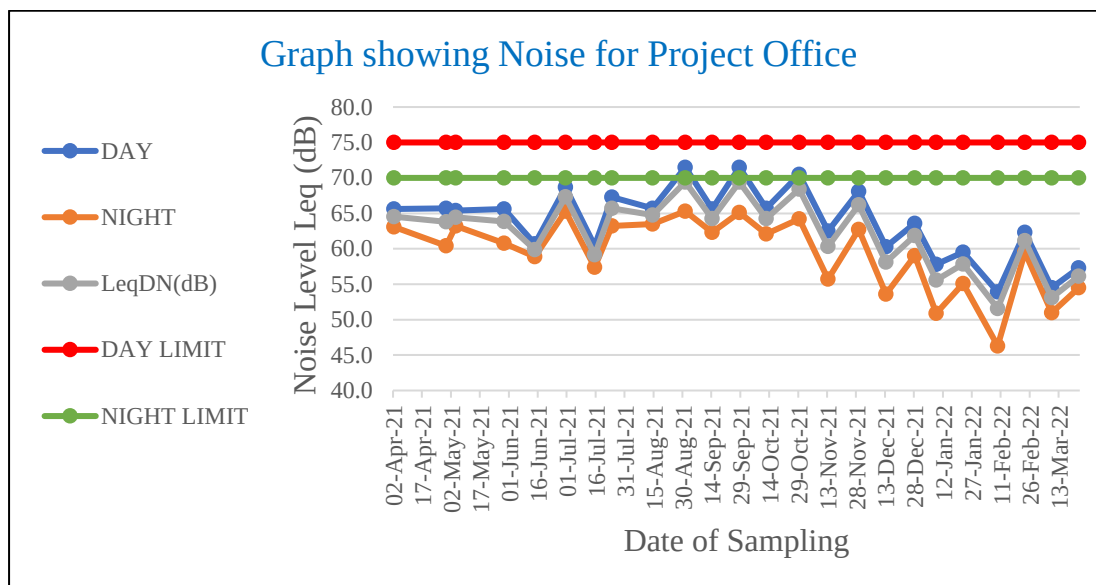
Table: 8.31
Area: Talcher
Project: Nandira Colliery
Monitoring Station: Project Office

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	65.6	63.1	64.5
29-Apr-21	65.7	60.4	63.8
04-May-21	65.4	63.2	64.4
29-May-21	65.6	60.8	63.8
14-Jun-21	60.7	58.9	59.9
30-Jun-21	68.7	65.3	67.3
15-Jul-21	60.4	57.4	59.2
24-Jul-21	67.3	63.2	65.7
14-Aug-21	65.7	63.5	64.7
31-Aug-21	71.5	65.3	69.4
14-Sep-21	65.6	62.3	64.3
28-Sep-21	71.5	65.1	69.4
12-Oct-21	65.7	62.1	64.3
29-Oct-21	70.5	64.2	68.4
13-Nov-21	62.5	55.7	60.3
29-Nov-21	68.1	62.7	66.2
13-Dec-21	60.3	53.6	58.1
28-Dec-21	63.6	59.0	61.9
08-Jan-22	57.8	50.9	55.6
22-Jan-22	59.5	55.1	57.8
09-Feb-22	53.9	46.3	51.6
23-Feb-22	62.3	59.5	61.1
09-Mar-22	54.5	51.0	53.1
23-Mar-22	57.3	54.5	56.1
MIN	53.9	46.3	51.6
MAX	71.5	65.3	69.4
MEAN	63.74	59.30	62.1
Noise Standard	75	70	

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Table:236



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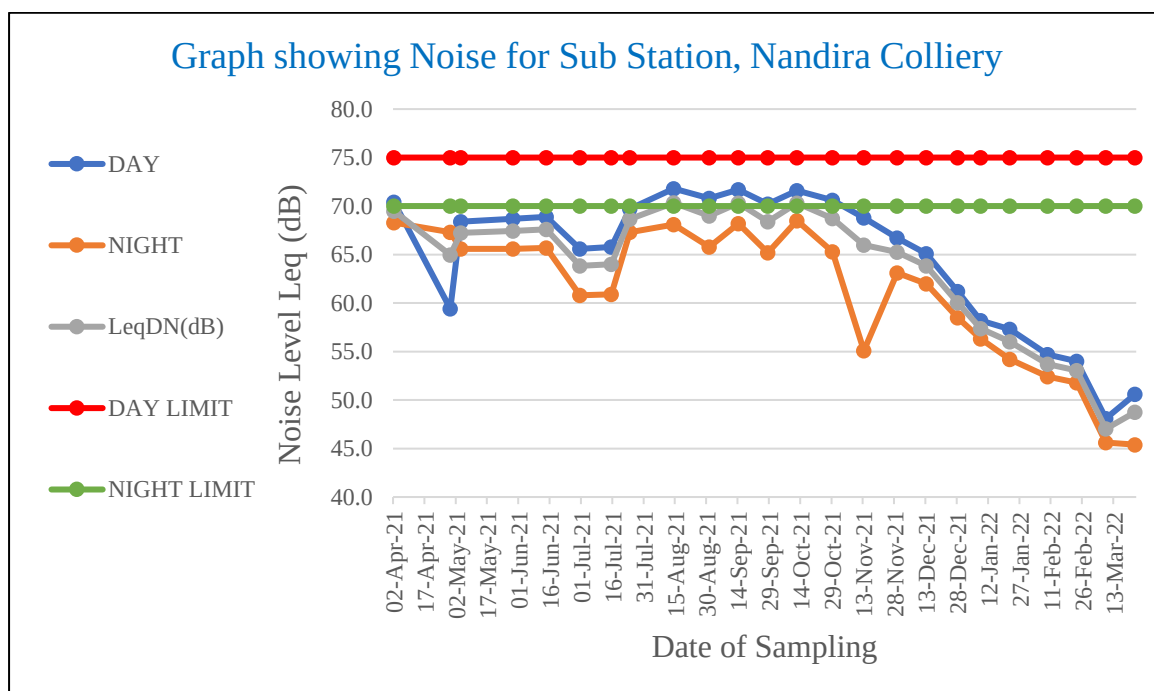
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Table: 8.32
Area: Talcher
Project: Talcher Colliery
Monitoring Station: Sub Station, Nandira Colliery

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	70.4	68.3	69.5
29-Apr-21	59.4	67.3	64.9
04-May-21	68.4	65.6	67.2
29-May-21	68.7	65.6	67.4
14-Jun-21	68.9	65.7	67.6
30-Jun-21	65.6	60.8	63.8
15-Jul-21	65.8	60.9	64.0
24-Jul-21	69.7	67.3	68.7
14-Aug-21	71.8	68.1	70.3
31-Aug-21	70.8	65.8	69.0
14-Sep-21	71.7	68.2	70.3
28-Sep-21	70.2	65.2	68.4
12-Oct-21	71.6	68.5	70.3
29-Oct-21	70.6	65.3	68.7
13-Nov-21	68.8	55.1	66.0
29-Nov-21	66.7	63.1	65.3
13-Dec-21	65.1	62.0	63.8
28-Dec-21	61.2	58.5	60.1
08-Jan-22	58.2	56.3	57.4
22-Jan-22	57.3	54.2	56.0
09-Feb-22	54.7	52.4	53.7
23-Feb-22	54.0	51.8	53.0
09-Mar-22	48.1	45.6	47.0
23-Mar-22	50.6	45.4	48.7
MIN	48.1	45.4	46.96
MAX	71.8	68.5	70.46
MEAN	64.51	61.13	63.14
Noise Standard	75	70	

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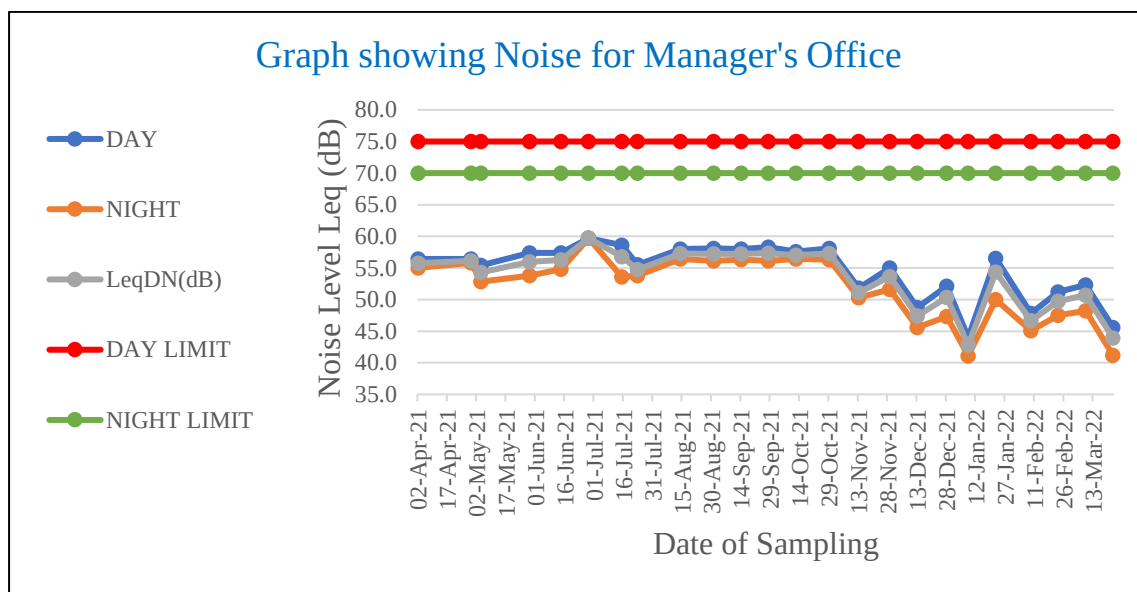
JOB NO.750001

Table: 8.33
Area: Talcher
Project: Deulbera Colliery
Monitoring Station: Manager's Office

DATE	DAY	NIGHT	Leq DN(dB)
02-Apr-21	56.4	55.0	55.8
29-Apr-21	56.4	55.8	56.1
04-May-21	55.4	52.8	54.3
29-May-21	57.4	53.8	56.0
14-Jun-21	57.4	54.8	56.3
28-Jun-21	59.7	59.7	59.7
15-Jul-21	58.6	53.6	56.8
23-Jul-21	55.5	53.8	54.7
14-Aug-21	58.0	56.4	57.3
31-Aug-21	58.1	56.1	57.2
14-Sep-21	58.0	56.3	57.2
28-Sep-21	58.3	56.1	57.3
12-Oct-21	57.6	56.4	57.0
29-Oct-21	58.1	56.3	57.3
13-Nov-21	51.8	50.3	51.1
29-Nov-21	55.0	51.6	53.6
13-Dec-21	48.7	45.6	47.4
28-Dec-21	52.1	47.3	50.3
08-Jan-22	44.0	41.1	42.8
22-Jan-22	56.5	50.0	54.4
09-Feb-22	47.8	45.1	46.7
23-Feb-22	51.2	47.5	49.7
09-Mar-22	52.3	48.2	50.7
23-Mar-22	45.6	41.2	43.9
MIN	44	41.1	42.8
MAX	59.7	59.7	59.7
MEAN	54.58	51.87	53.4
Noise Standard	75	70	

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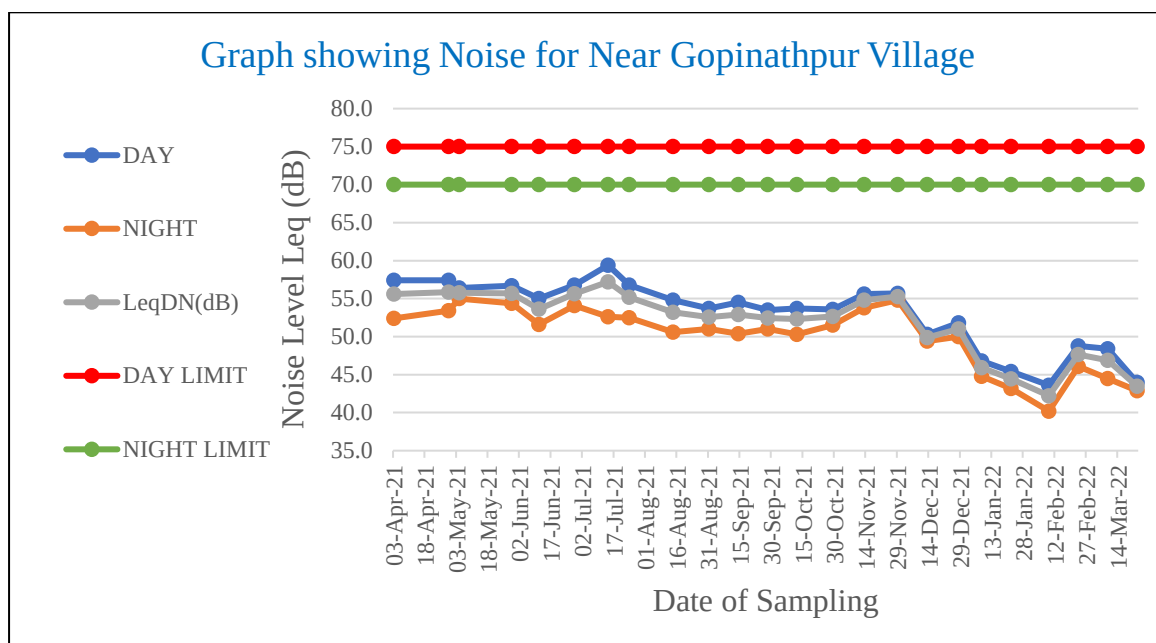
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Table:8.34
Area: Talcher
Project: Mandapal Sand Mine
Monitoring Station: Near Gopinathpur Village

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	57.4	52.4	55.6
29-Apr-21	57.4	53.4	55.8
04-May-21	56.4	55.0	55.8
29-May-21	56.7	54.4	55.7
11-Jun-21	55.0	51.6	53.6
28-Jun-21	56.8	54.1	55.7
14-Jul-21	59.4	52.6	57.2
24-Jul-21	56.8	52.5	55.2
14-Aug-21	54.8	50.6	53.2
31-Aug-21	53.7	51.0	52.6
14-Sep-21	54.5	50.4	52.9
28-Sep-21	53.5	51.0	52.4
12-Oct-21	53.7	50.3	52.3
29-Oct-21	53.6	51.5	52.7
13-Nov-21	55.6	53.8	54.8
29-Nov-21	55.7	54.8	55.3
13-Dec-21	50.3	49.4	49.9
28-Dec-21	51.8	50.0	51.0
08-Jan-22	46.8	44.8	45.9
22-Jan-22	45.4	43.2	44.4
09-Feb-22	43.6	40.2	42.2
23-Feb-22	48.8	46.1	47.7
09-Mar-22	48.4	44.5	46.9
23-Mar-22	44.0	42.9	43.5
MIN	43.6	40.2	42.2
MAX	59.4	55.0	57.7
MEAN	52.92	50.02	51.7
Noise Standard	75	70	

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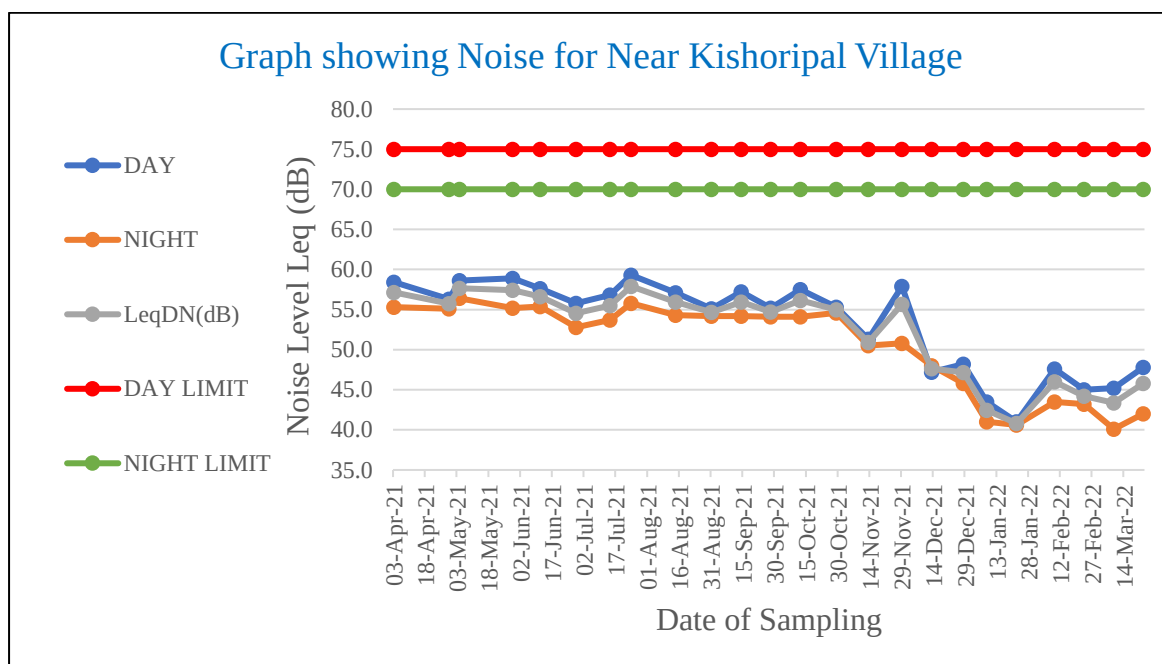
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Table: 8.35
Area: Talcher
Project: Kakudi & Kishoripal Sand Mine
Monitoring Station: Near Kishoripal Village

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	58.4	55.3	57.1
29-Apr-21	56.3	55.1	55.7
04-May-21	58.6	56.4	57.6
29-May-21	58.9	55.2	57.4
11-Jun-21	57.6	55.4	56.6
28-Jun-21	55.8	52.8	54.6
14-Jul-21	56.8	53.7	55.5
24-Jul-21	59.3	55.8	57.9
14-Aug-21	57.1	54.3	55.9
31-Aug-21	55.1	54.2	54.7
14-Sep-21	57.2	54.2	56.0
28-Sep-21	55.2	54.1	54.7
12-Oct-21	57.5	54.1	56.1
29-Oct-21	55.3	54.6	55.0
13-Nov-21	51.3	50.5	50.9
29-Nov-21	57.9	50.8	55.7
13-Dec-21	47.2	48.0	47.6
28-Dec-21	48.2	45.8	47.2
08-Jan-22	43.5	41.0	42.4
22-Jan-22	41.0	40.6	40.8
09-Feb-22	47.6	43.5	46.0
23-Feb-22	45.0	43.2	44.2
09-Mar-22	45.2	40.1	43.4
23-Mar-22	47.8	42.0	45.8
MIN	41	40.1	40.6
MAX	59.3	56.4	58.1
MEAN	53.08	50.45	52.0
Noise Standard	75	70	

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EFFLUENT QUALITY

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TABLE NO 9 FOR EFFLUENT QUALITY DATA

Table:9.1

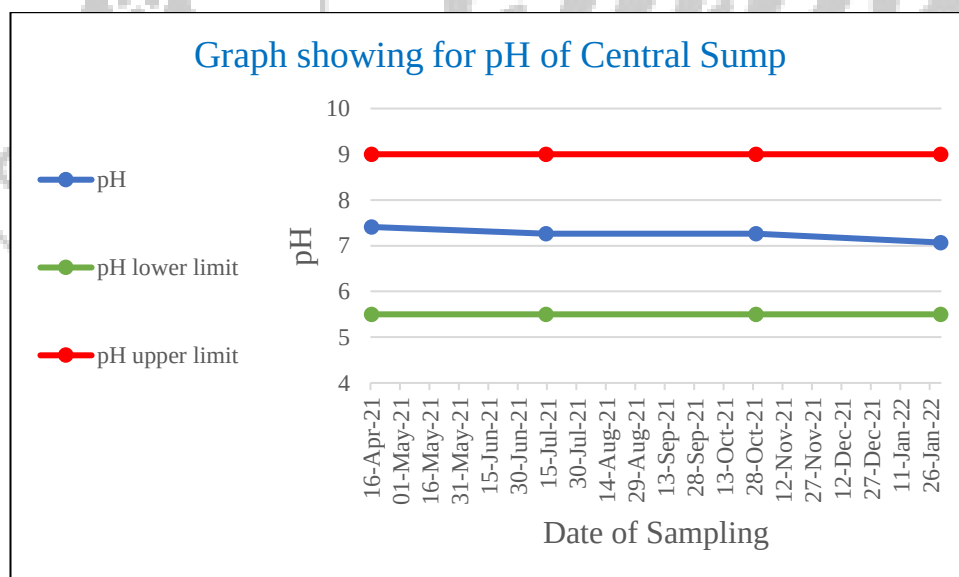
Area: Jagannath

Project: Jagannath OCP

Monitoring Station: Central Sump

All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH
16-Apr-21	7.41
14-Jul-21	7.26
29-Oct-21	7.26
31-Jan-22	7.07
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH
	5.5-9.0



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Table:9.2
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: Near MDTP

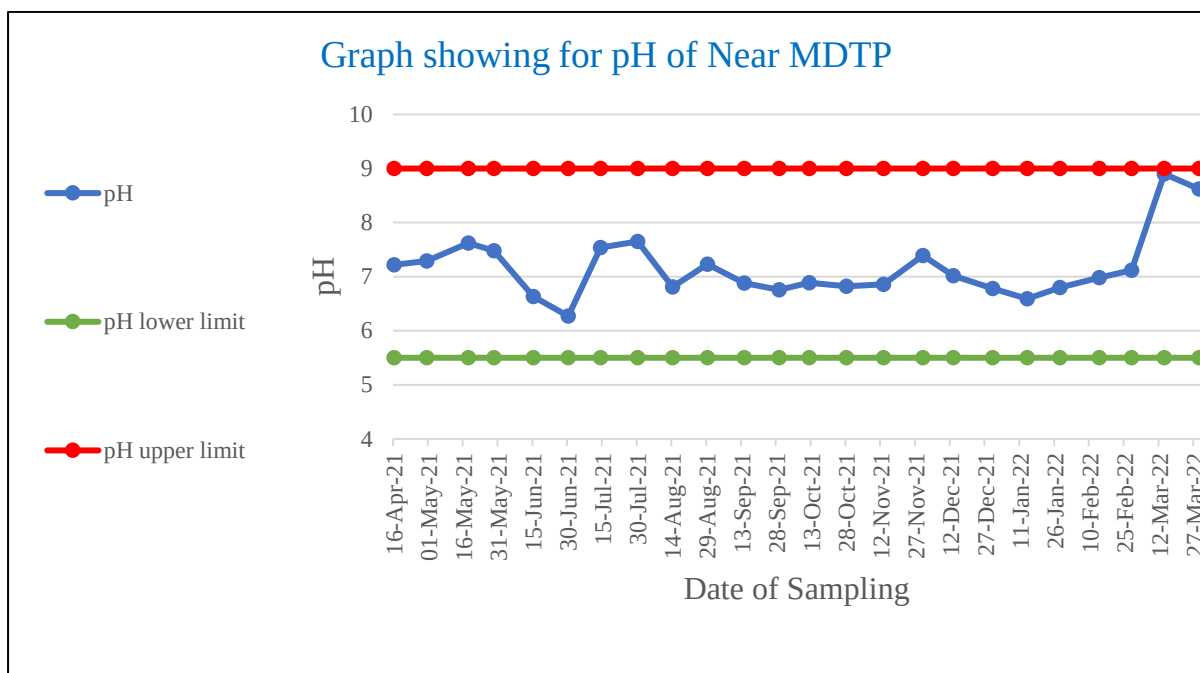
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
16-Apr-21	7.22	<4.0	24	32
30-Apr-21	7.29	<4.0	30	28
18-May-21	7.62	<4.0	28	20
29-May-21	7.48	<4.0	20	12
15-Jun-21	6.63	<4.0	56	64
30-Jun-21	6.27	<4.0	54	40
14-Jul-21	7.54	<4.0	34	24
30-Jul-21	7.65	<4.0	54	36
14-Aug-21	6.81	<4.0	54	32
29-Aug-21	7.23	<4.0	48	28
14-Sep-21	6.88	<4.0	30	24
29-Sep-21	6.76	<4.0	44	32
12-Oct-21	6.89	<4.0	36	24
28-Oct-21	6.82	<4.0	32	20
13-Nov-21	6.86	<4.0	18	16
30-Nov-21	7.39	<4.0	24	20
13-Dec-21	7.02	<4.0	54	32
30-Dec-21	6.78	<4.0	22	48
14-Jan-22	6.59	<4.0	42	52
28-Jan-22	6.8	<4.0	20	12
14-Feb-22	6.98	<4.0	26	24
28-Feb-22	7.12	<4.0	38	36
14-Mar-22	8.9	<4.0	24	18
29-Mar-22	8.62	<4.0	30	24
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

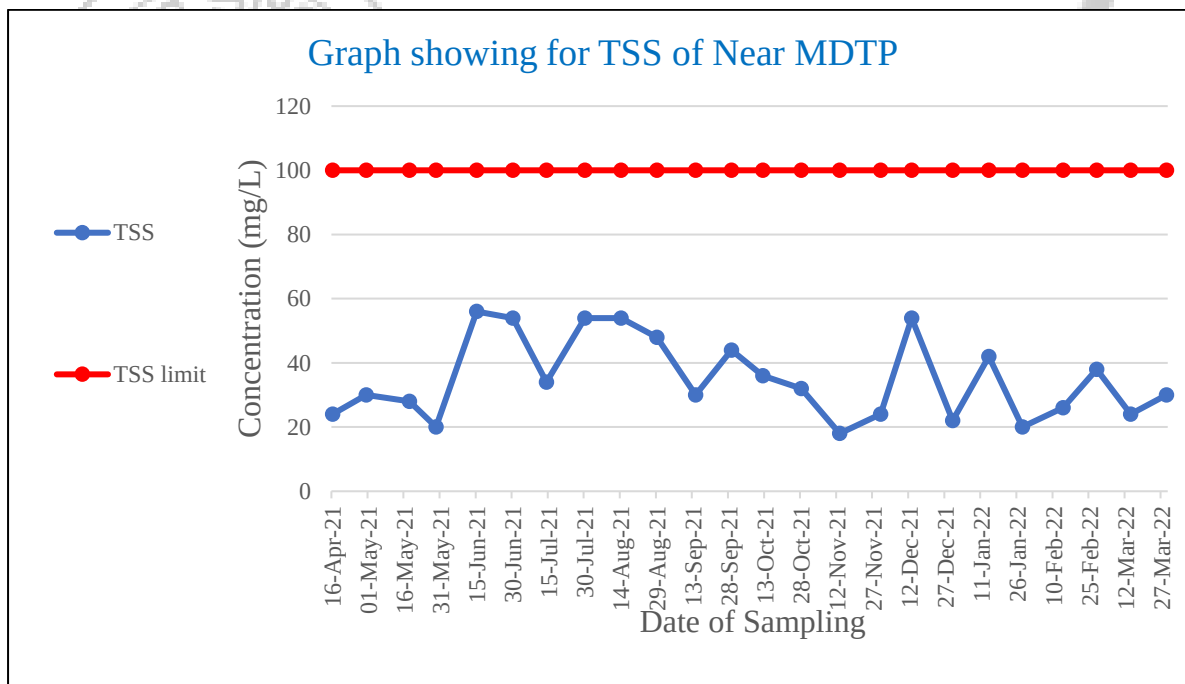
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Graph showing for pH of Near MDTP

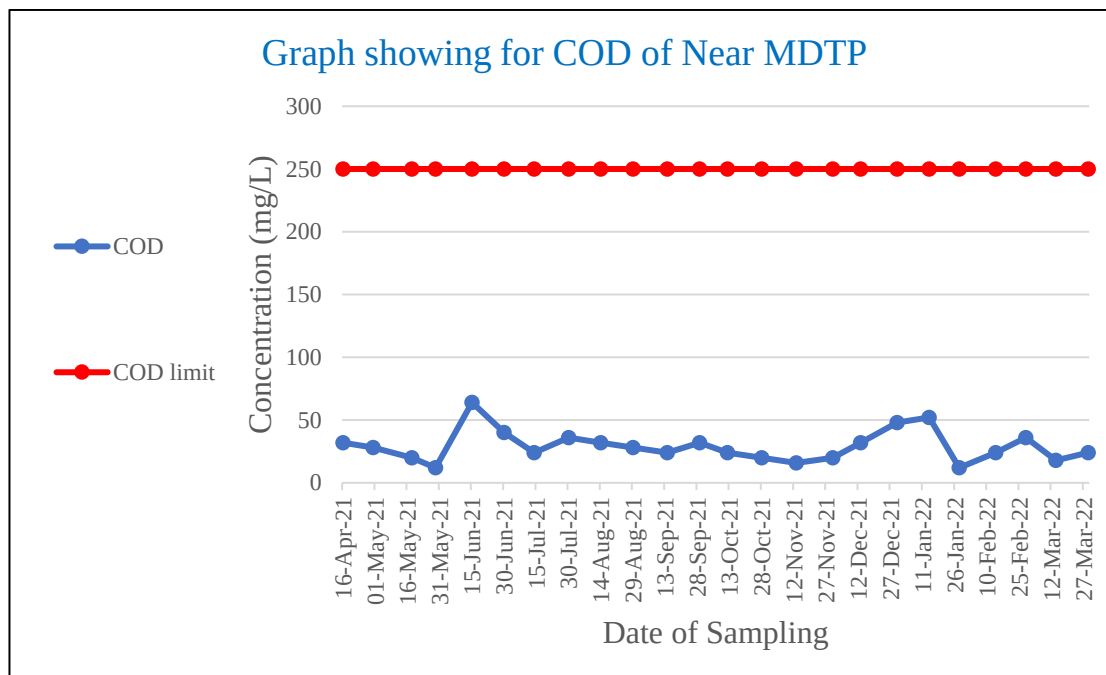


Graph showing for TSS of Near MDTP



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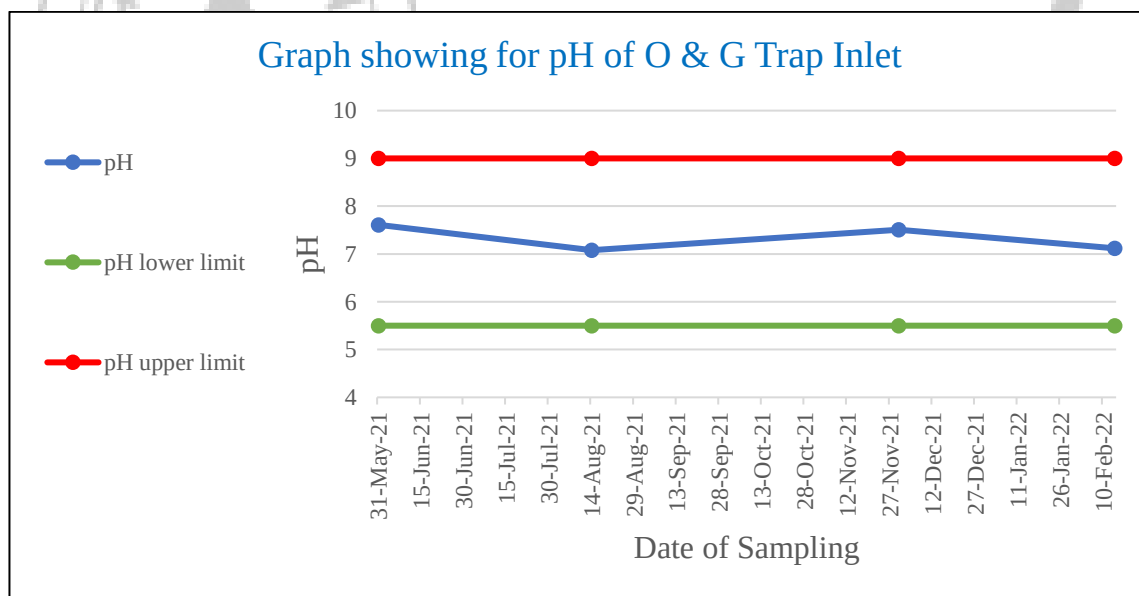
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Table:9.3
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: O & G Trap Inlet (4P)

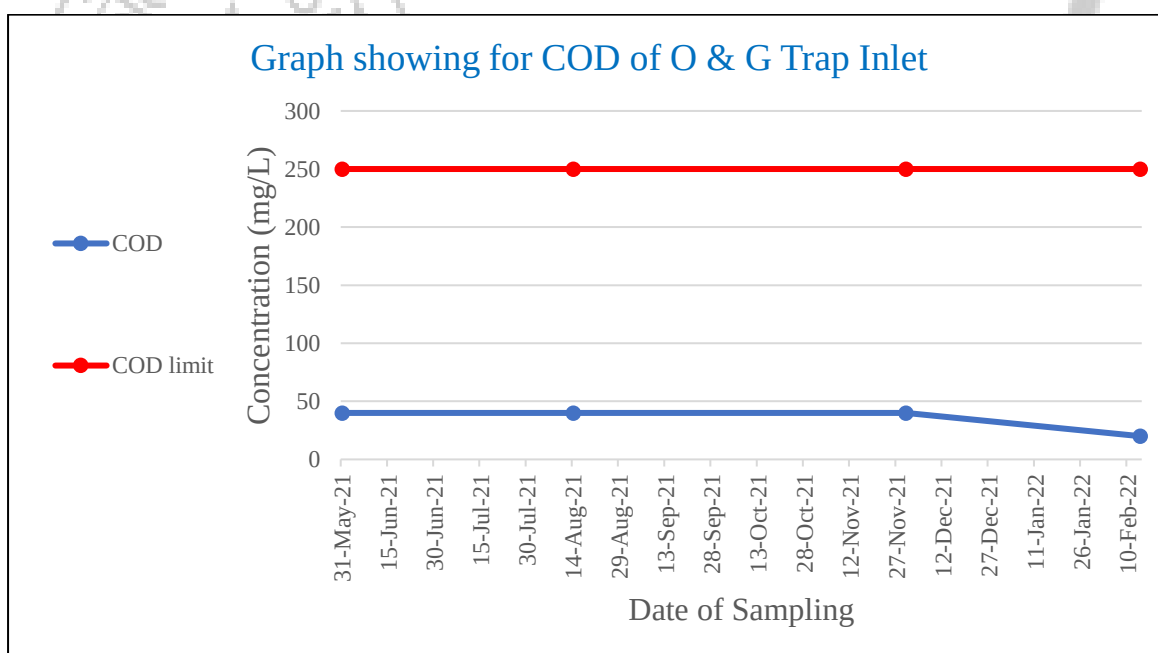
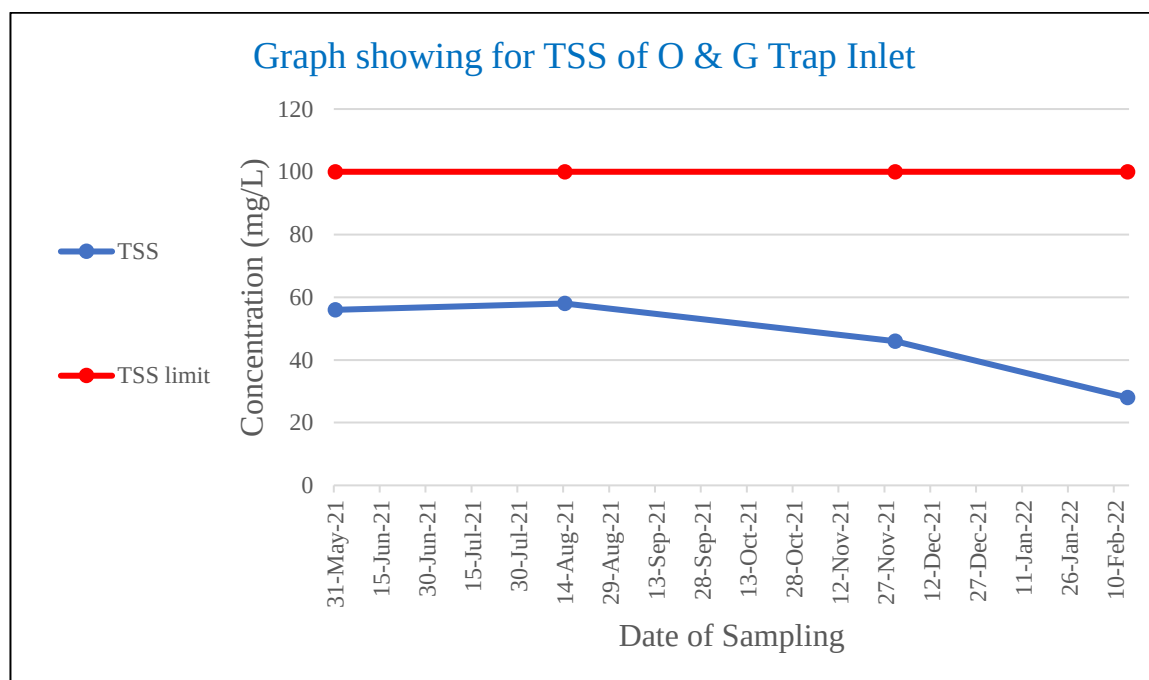
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
31-May-21	7.61	<4.0	56	40
14-Aug-21	7.08	<4.0	58	40
30-Nov-21	7.51	<4.0	46	40
14-Feb-22	7.12	<4.0	28	20
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250



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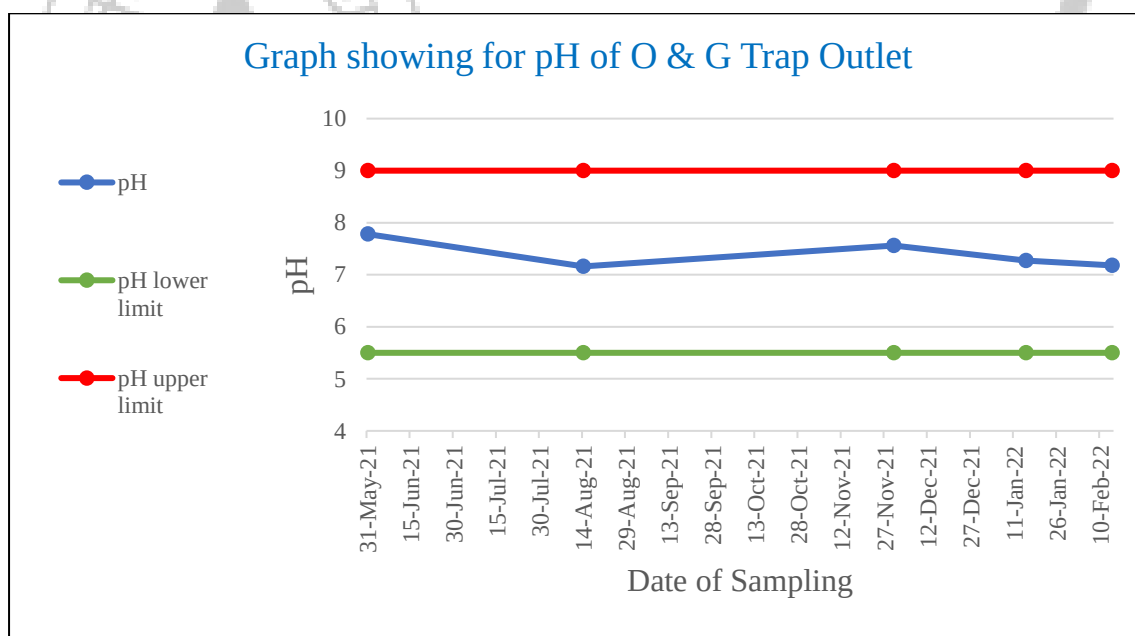
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Table:9.4
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: O & G Trap Outlet (4P)

All dimensions are in mg/l unless otherwise stated except pH

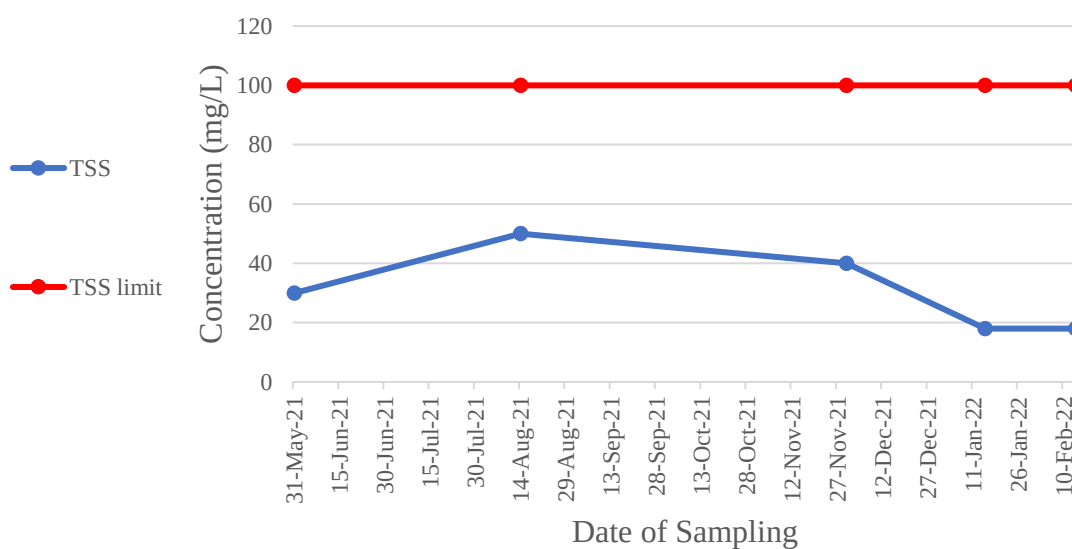
Date of Sampling	pH	Oil & Grease	TSS	COD
31-May-21	7.78	<4.0	30	24
14-Aug-21	7.16	<4.0	50	36
30-Nov-21	7.56	<4.0	40	32
15-Jan-22	7.27	<4.0	18	32
14-Feb-22	7.18	<4.0	18	16
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250



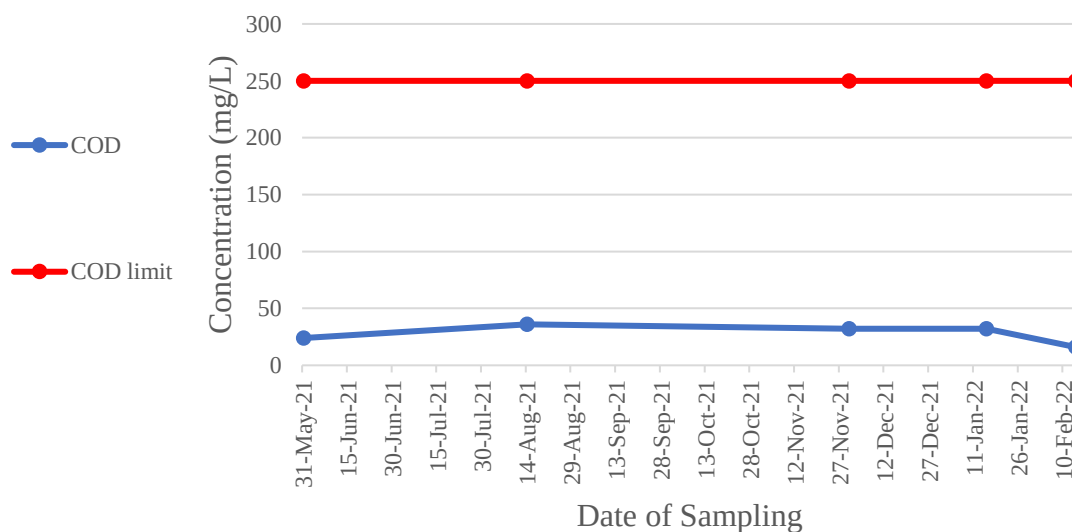
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Graph showing for TSS of O & G Trap Outlet



Graph showing for COD of O & G Trap Outlet



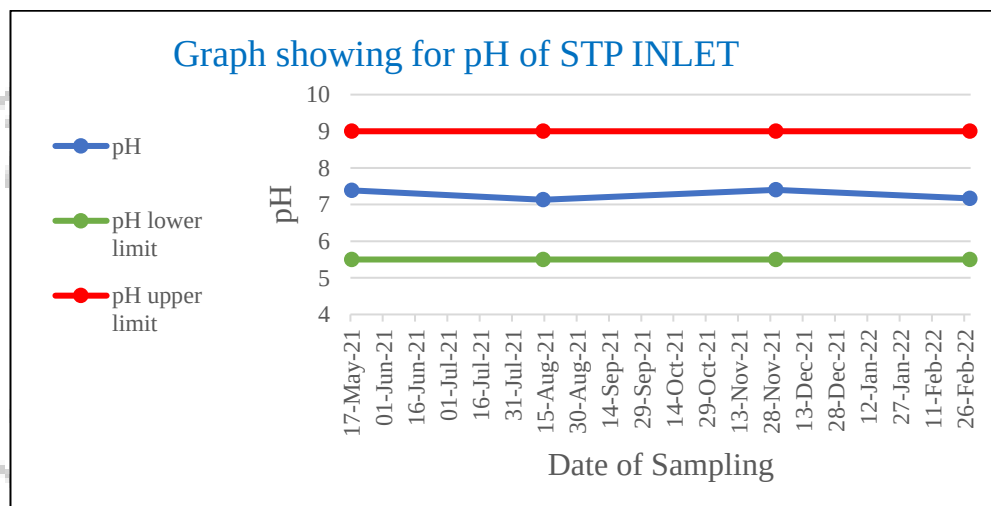
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Table:9.5
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: STP Inlet

All dimensions are in mg/l unless otherwise stated except pH

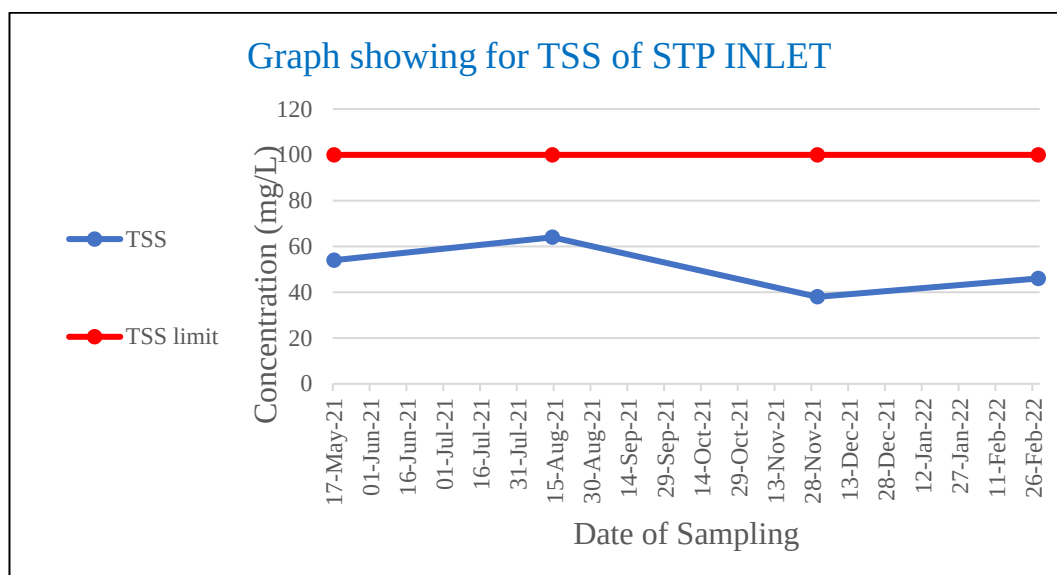
Date of Sampling	pH	TSS	BOD
17-May-21	7.39	54	<2.0
14-Aug-21	7.13	64	<2.0
30-Nov-21	7.4	38	<2.0
28-Feb-22	7.17	46	<2.0
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	TSS	BOD
	5.5-9.0	100	30



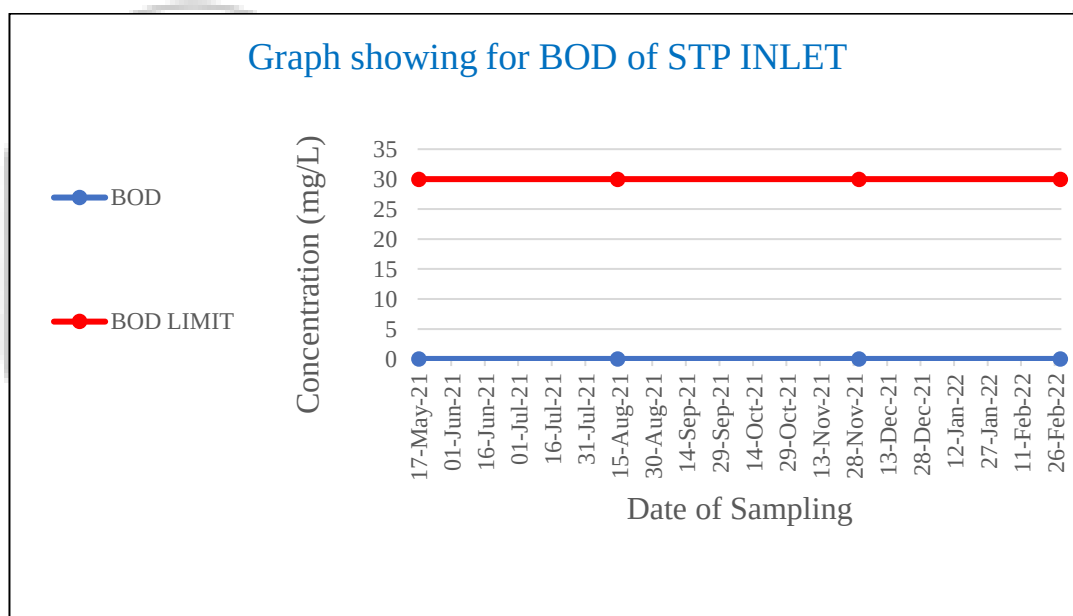
**PREPARED BY: CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD.,
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JOB NO.750001

Graph showing for TSS of STP INLET



Graph showing for BOD of STP INLET



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Table:9.6
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: STP Outlet

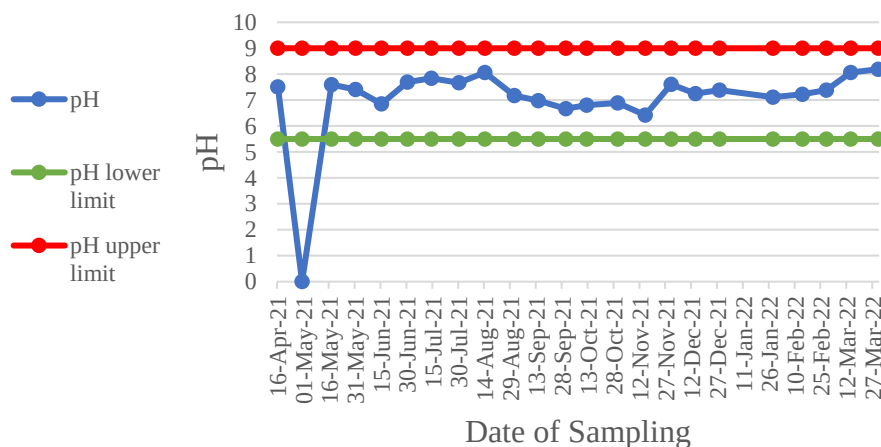
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	TSS	BOD
16-Apr-21	7.51	30	<2.0
30-Apr-21	-	-	-
17-May-21	7.6	46	<2.0
31-May-21	7.41	52	<2.0
15-Jun-21	6.85	34	<2.0
30-Jun-21	7.7	30	<2.0
14-Jul-21	7.84	38	<2.0
30-Jul-21	7.67	38	<2.0
14-Aug-21	8.06	46	<2.0
31-Aug-21	7.17	38	<2.0
14-Sep-21	6.98	54	<2.0
30-Sep-21	6.67	40	<2.0
12-Oct-21	6.81	46	<2.0
30-Oct-21	6.89	40	<2.0
15-Nov-21	6.42	34	<2.0
30-Nov-21	7.61	30	<2.0
14-Dec-21	7.25	48	<2.0
28-Dec-21	7.38	16	<2.0
28-Jan-22	7.12	40	<2.0
14-Feb-22	7.23	36	<2.0
28-Feb-22	7.39	32	<2.0
14-Mar-22	8.06	38	<2.0
30-Mar-22	8.19	42	<2
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	TSS	BOD
	5.5-9.0	100	30

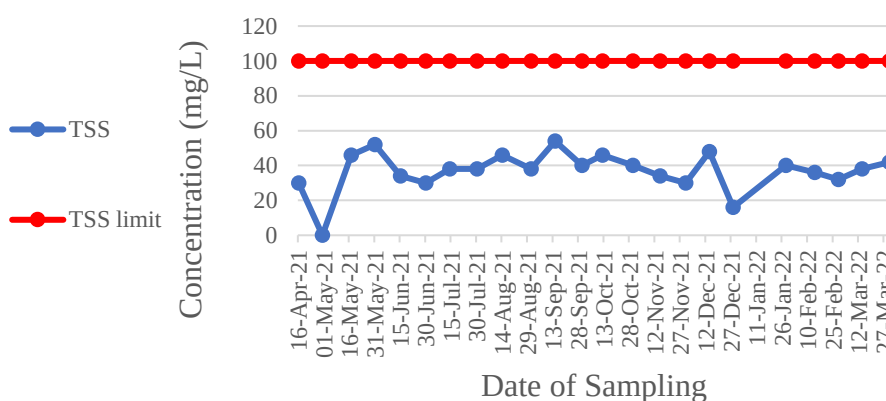
**PREPARED BY: CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD.,
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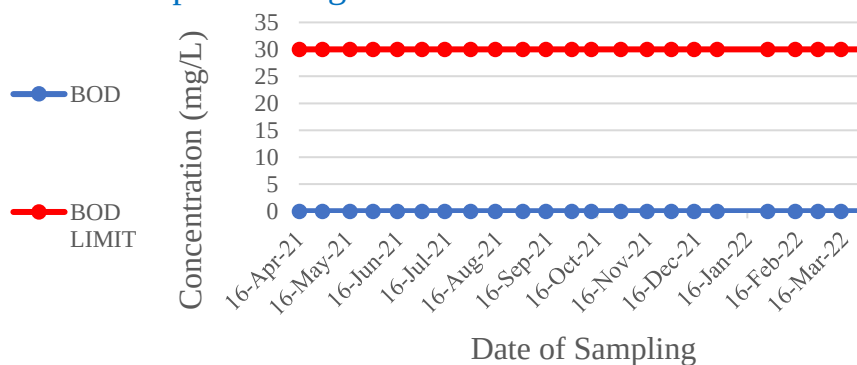
Graph showing for pH of STP OUTLET



Graph showing for TSS of STP OUTLET



Graph showing for BOD of STP OUTLET



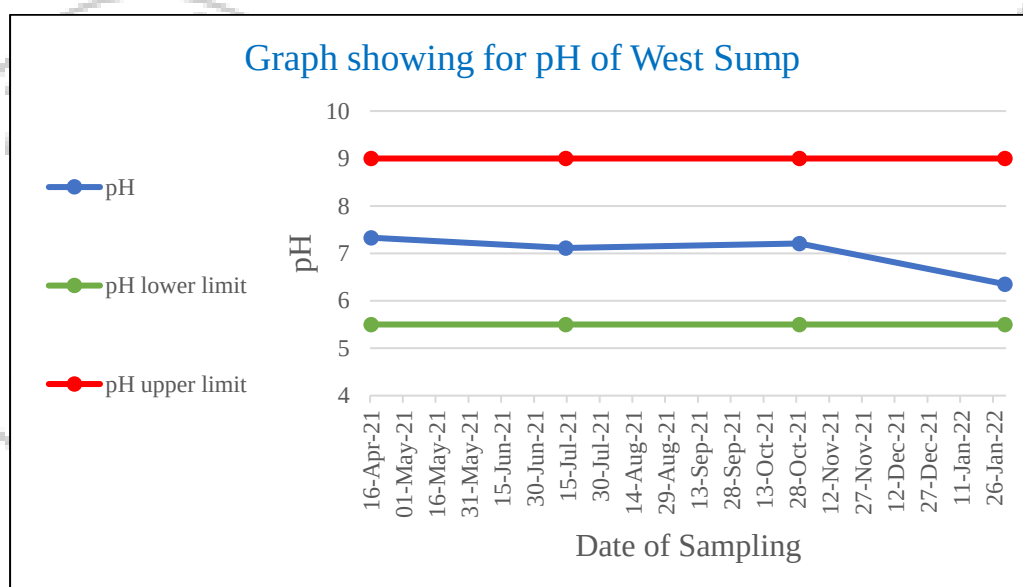
**PREPARED BY: CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD.,
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Table:9.7
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: West Sump

All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH
16-Apr-21	7.33
14-Jul-21	7.11
29-Oct-21	7.21
31-Jan-22	6.35
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH
	5.5-9.0



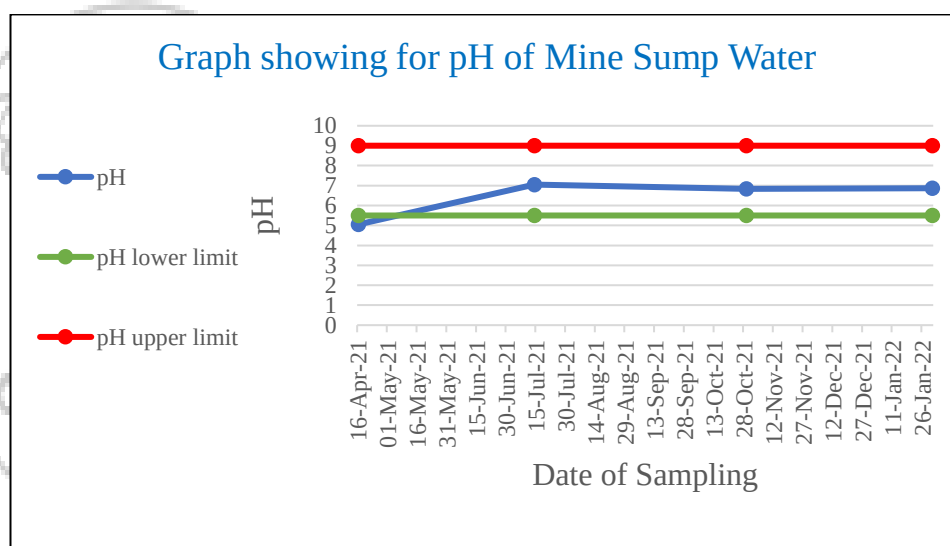
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Table:9.8
Area: Jagannath
Project: Ananta OCP
Monitoring Station: Mine Sump Water

All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH
16-Apr-21	5.05
14-Jul-21	7.05
29-Oct-21	6.84
31-Jan-22	6.87
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH
	5.5-9.0



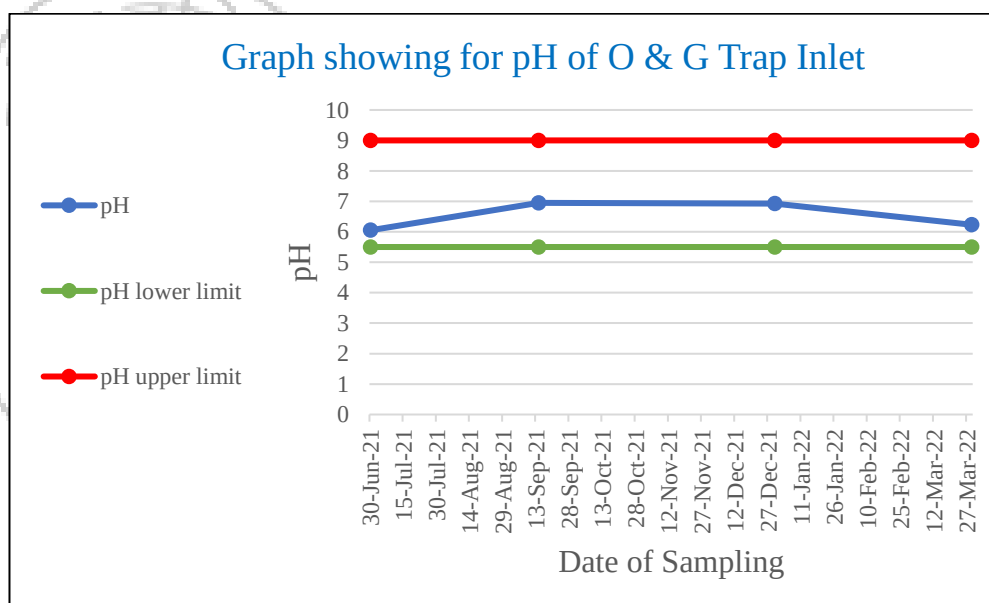
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JOB NO.750001

Table:9.9
Area: Jagannath
Project: Ananta OCP
Monitoring Station: O & G Trap Inlet

All dimensions are in mg/l unless otherwise stated except pH

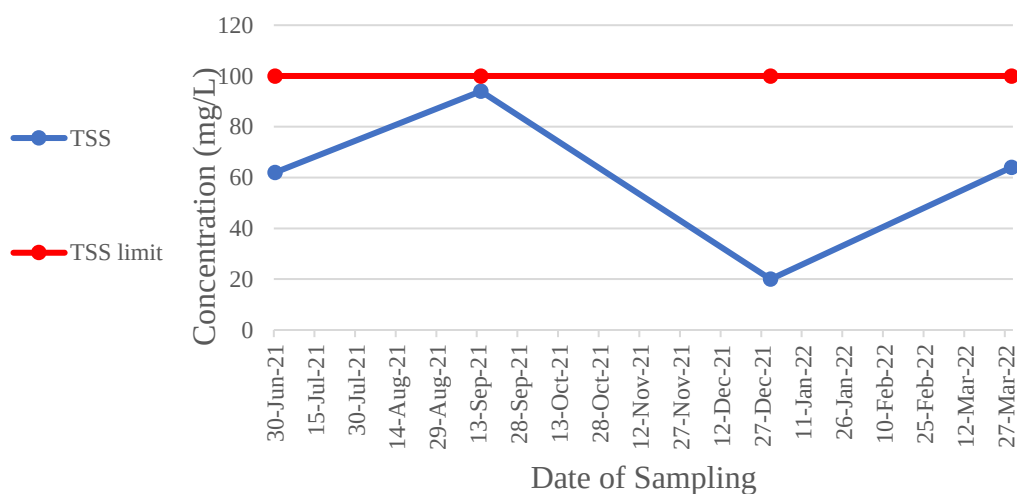
Date of Sampling	pH	Oil & Grease	TSS	COD
30-Jun-21	6.05	<4.0	62	44
14-Sep-21	6.95	<4.0	94	80
30-Dec-21	6.92	<4.0	20	56
29-Mar-22	6.23	<4.0	64	40
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250



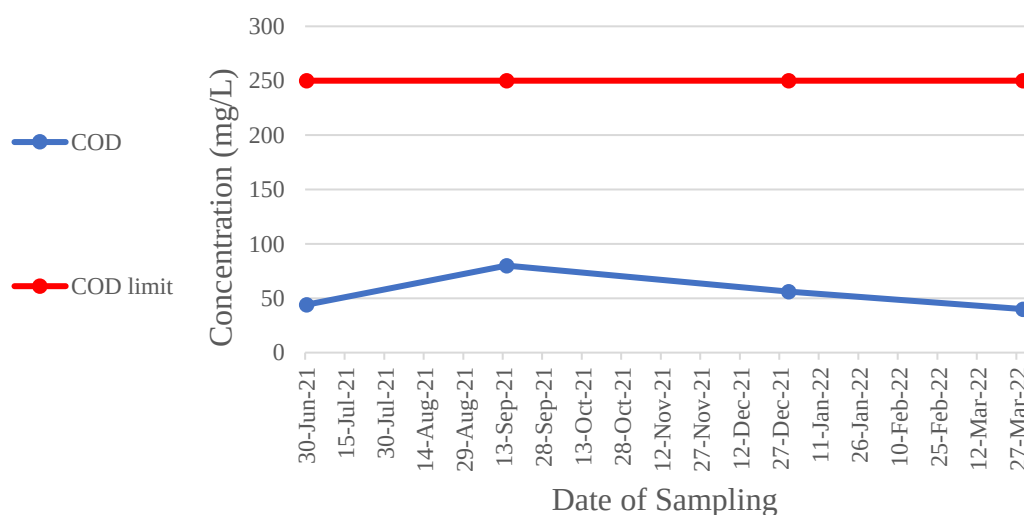
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Graph showing for TSS of O & G Trap Inlet



Graph showing for COD of O & G Trap Inlet



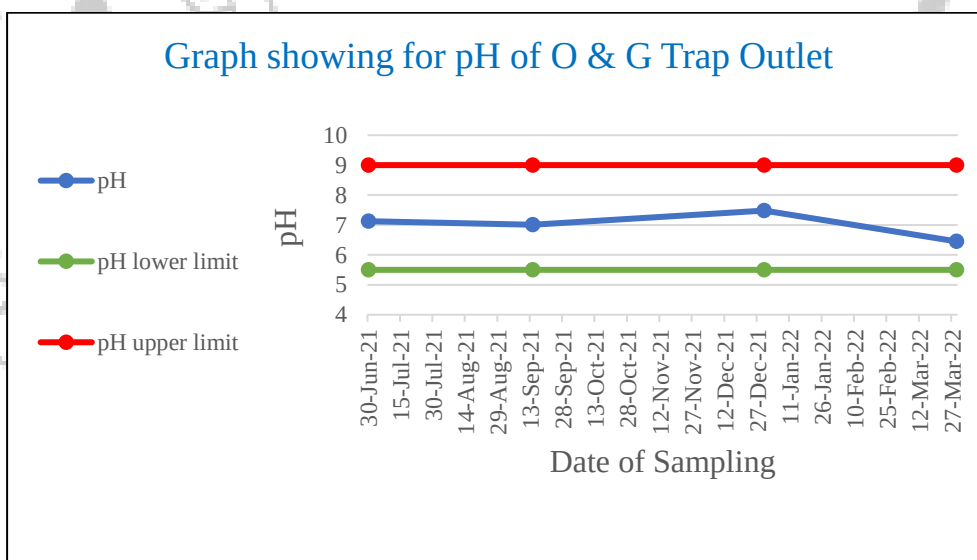
**PREPARED BY: CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD.,
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Table:9.10
Area: Jagannath
Project: Ananta OCP
Monitoring Station: O & G Trap Outlet

All dimensions are in mg/l unless otherwise stated except pH

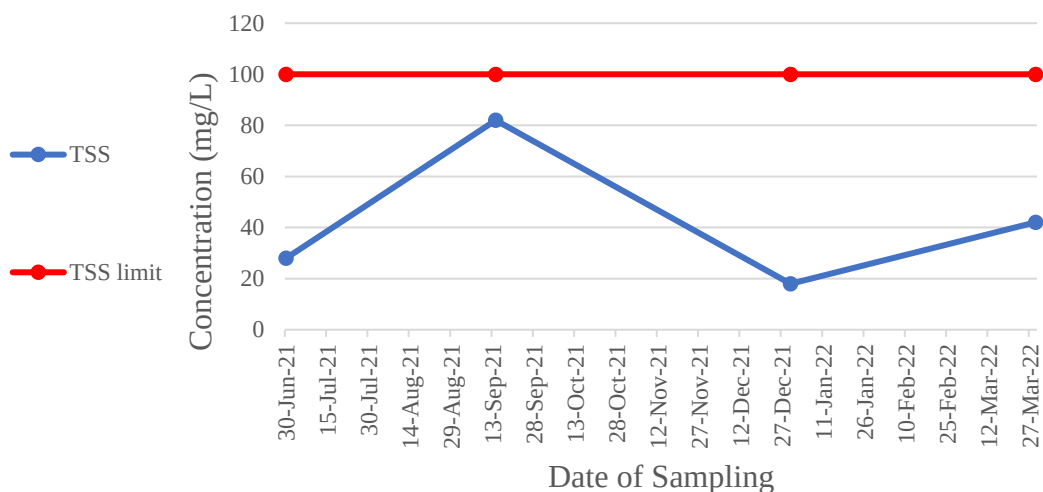
Date of Sampling	pH	Oil & Grease	TSS	COD
30-Jun-21	7.13	<4.0	28	20
14-Sep-21	7.01	<4.0	82	72
30-Dec-21	7.48	<4.0	18	64
29-Mar-22	6.45	<4.0	42	32
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250



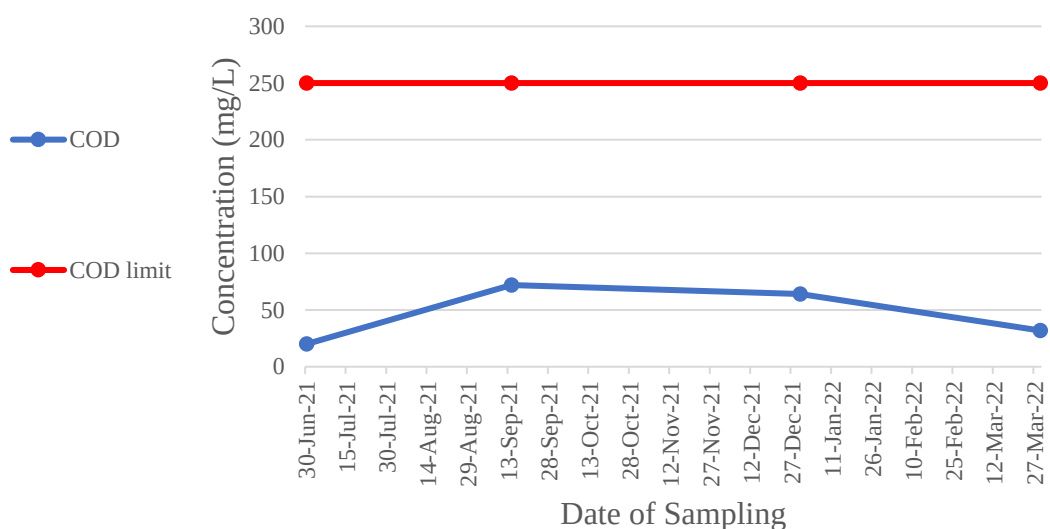
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Graph showing for TSS of O & G Trap Outlet



Graph showing for COD of O & G Trap Outlet



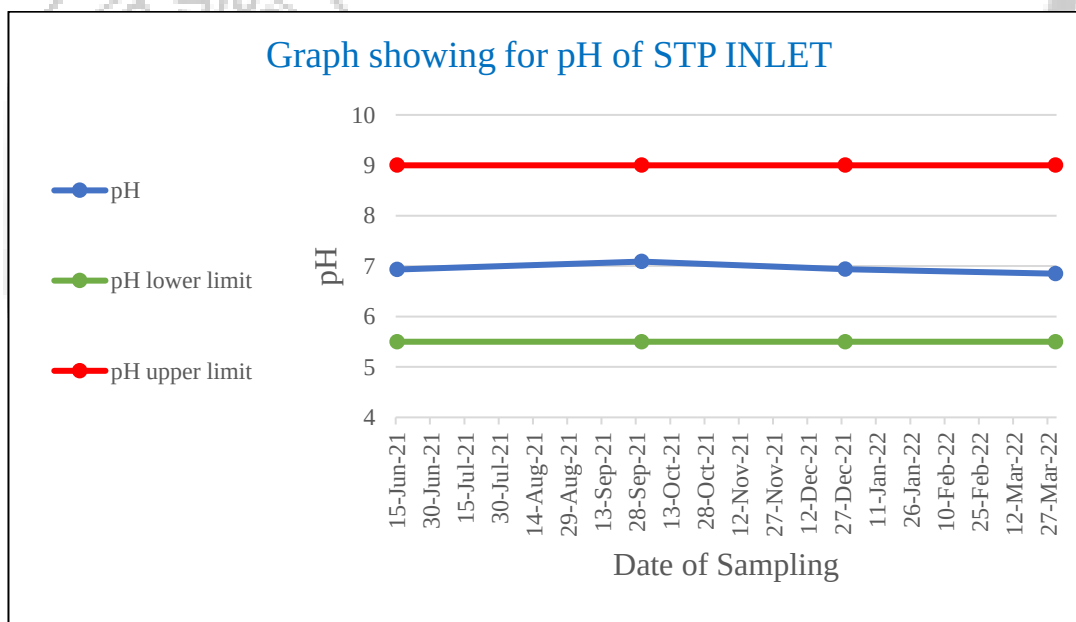
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Table: :9.11
Area: Jagannath
Project: Ananta OCP
Monitoring Station: STP INLET

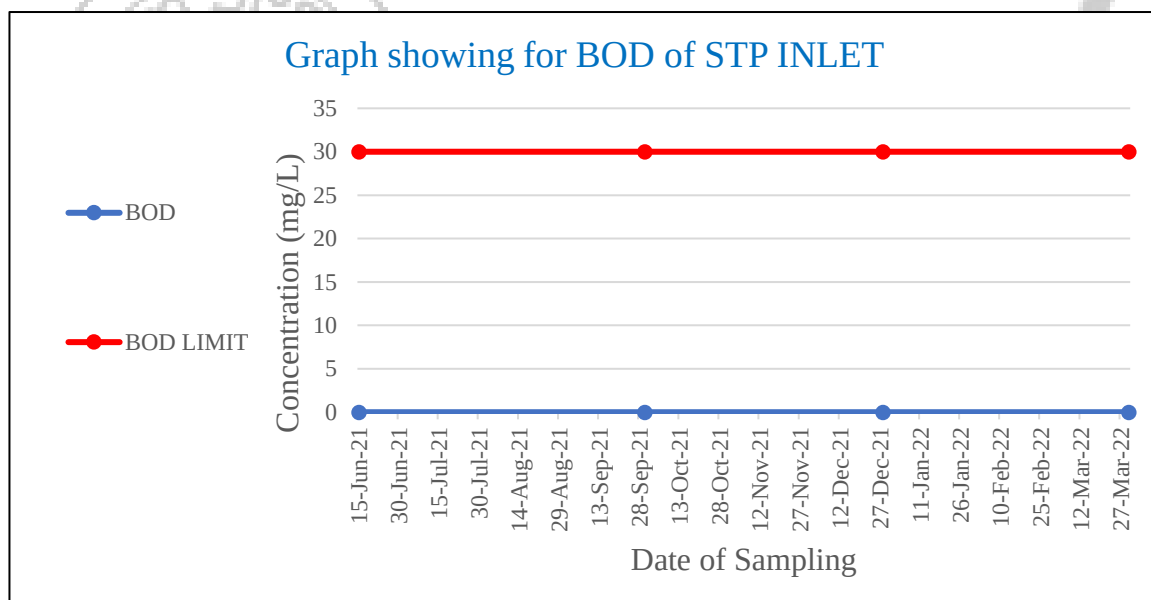
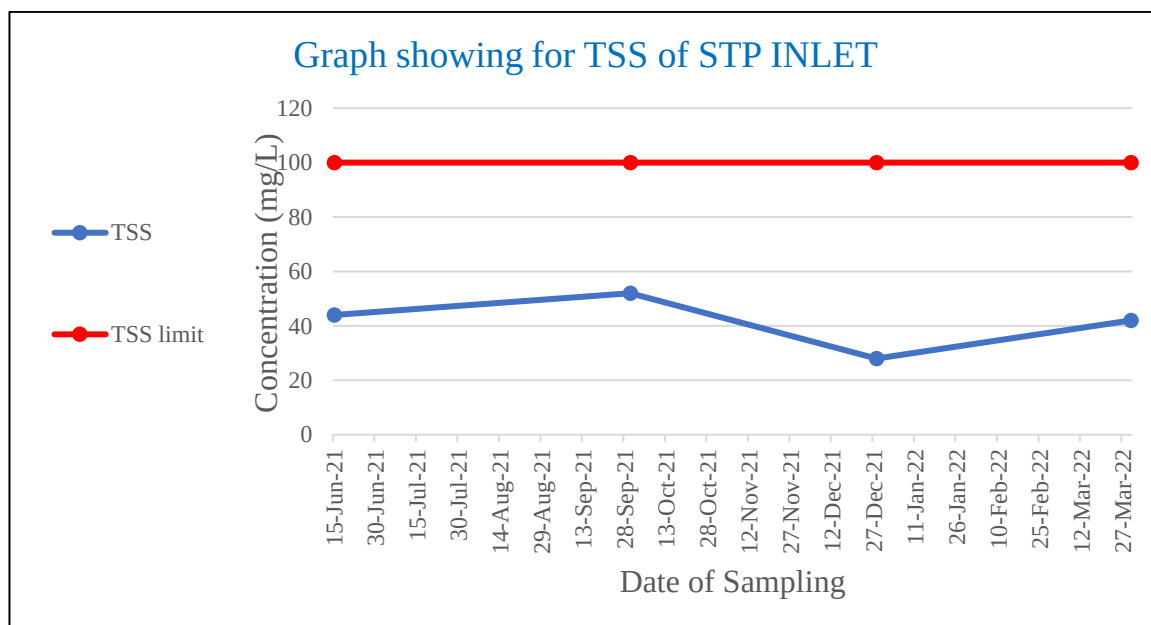
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	TSS	BOD
15-Jun-21	6.93	44	<2.0
30-Sep-21	7.09	52	<2.0
28-Dec-21	6.94	28	<2.0
30-Mar-22	6.85	42	<2
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	TSS	BOD
	5.5-9.0	100	30



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Table: :9.12
Area: Jagannath
Project: Ananta OCP
Monitoring Station: STP OUTLET

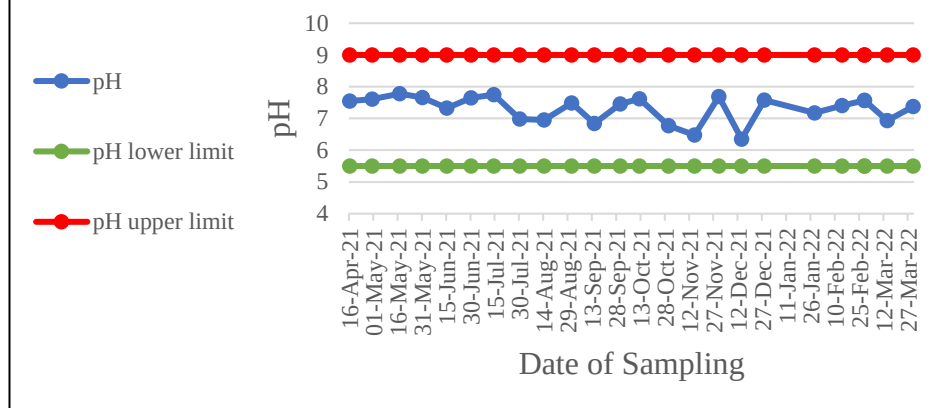
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	TSS	BOD
16-Apr-21	7.55	32	<2.0
30-Apr-21	7.61	38	<2.0
17-May-21	7.78	58	<2.0
31-May-21	7.66	48	<2.0
15-Jun-21	7.33	32	<2.0
30-Jun-21	7.65	34	<2.0
14-Jul-21	7.75	40	<2.0
30-Jul-21	6.98	42	<2.0
14-Aug-21	6.95	40	<2.0
31-Aug-21	7.49	44	<2.0
14-Sep-21	6.84	46	<2.0
30-Sep-21	7.46	38	<2.0
12-Oct-21	7.62	44	<2.0
30-Oct-21	6.77	30	<2.0
15-Nov-21	6.48	42	<2.0
30-Nov-21	7.69	32	<2.0
14-Dec-21	6.35	56	<2.0
28-Dec-21	7.58	20	<2.0
28-Jan-22	7.17	44	<2.0
14-Feb-22	7.41	42	<2.0
28-Feb-22	7.57	46	<2.0
28-Feb-22	7.57	46	<2.0
14-Mar-22	6.93	42	<2.0
30-Mar-22	7.38	30	<2
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	TSS	BOD
	5.5-9.0	100	30

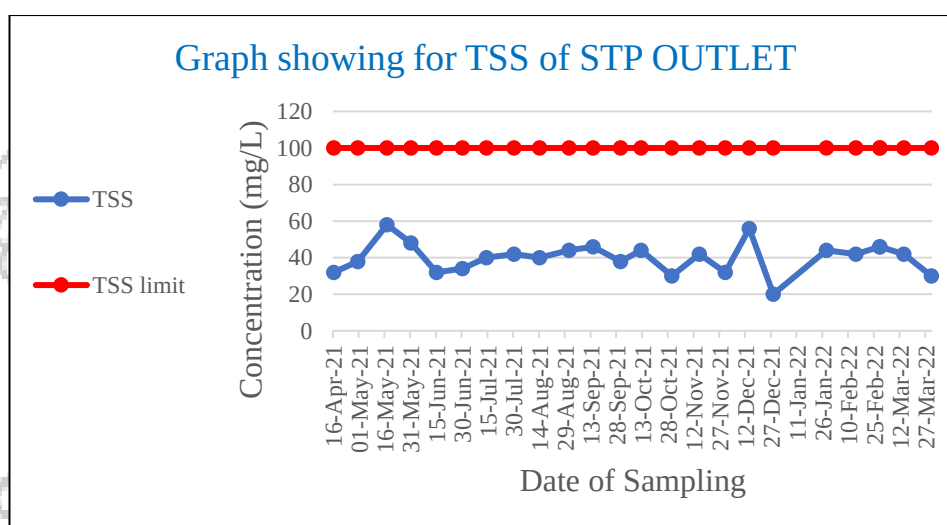
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JOB NO.750001

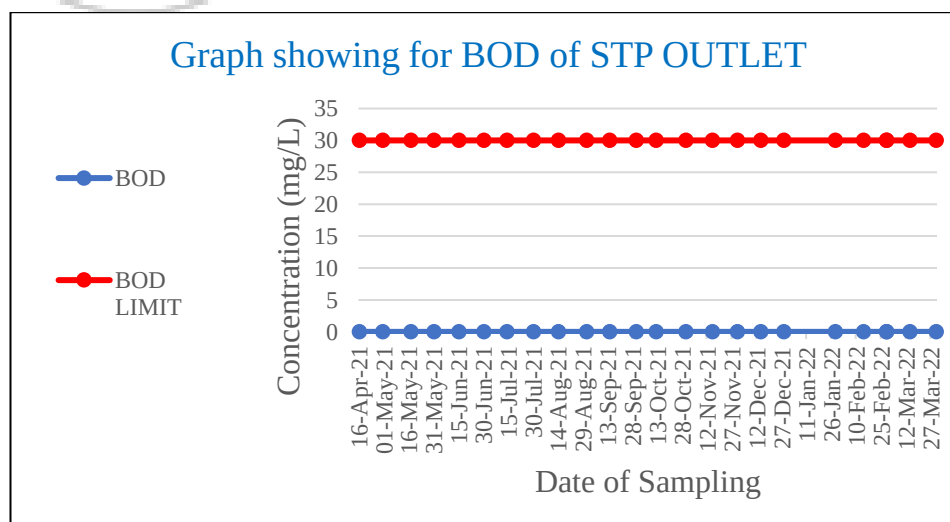
Graph showing for pH of STP OUTLET



Graph showing for TSS of STP OUTLET



Graph showing for BOD of STP OUTLET



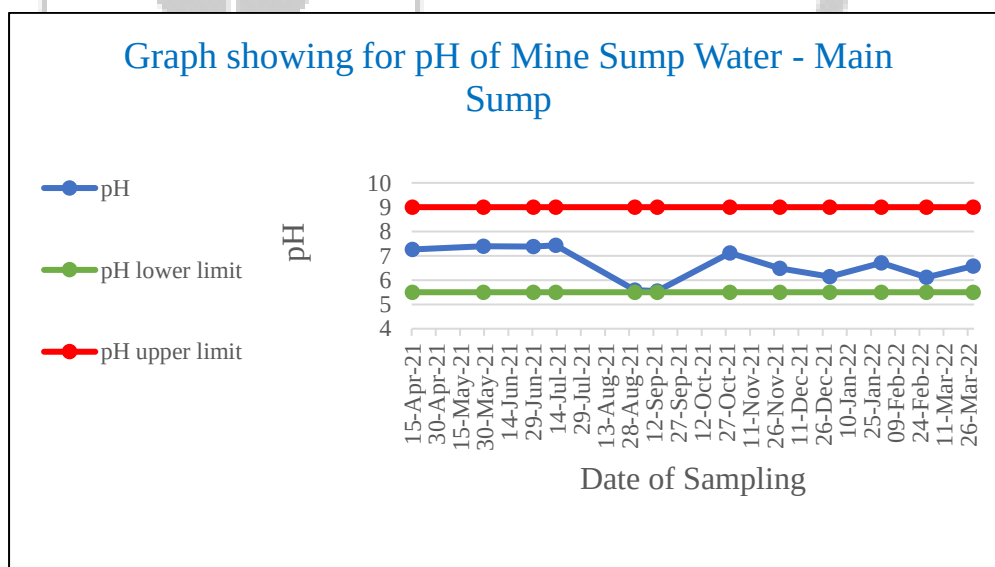
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Table: :9.13

Area: Bharatpur**Project:** Bharatpur OCP**Monitoring Station:** Mine Sump Water -Main Sump*All dimensions are in mg/l unless otherwise stated except pH*

Date of Sampling	pH
15-Apr-21	7.26
29-May-21	7.39
29-Jun-21	7.38
13-Jul-21	7.43
31-Aug-21	5.59
14-Sep-21	5.55
29-Oct-21	7.11
29-Nov-21	6.48
30-Dec-21	6.14
31-Jan-22	6.71
28-Feb-22	6.12
29-Mar-22	6.58
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH
	5.5-9.0



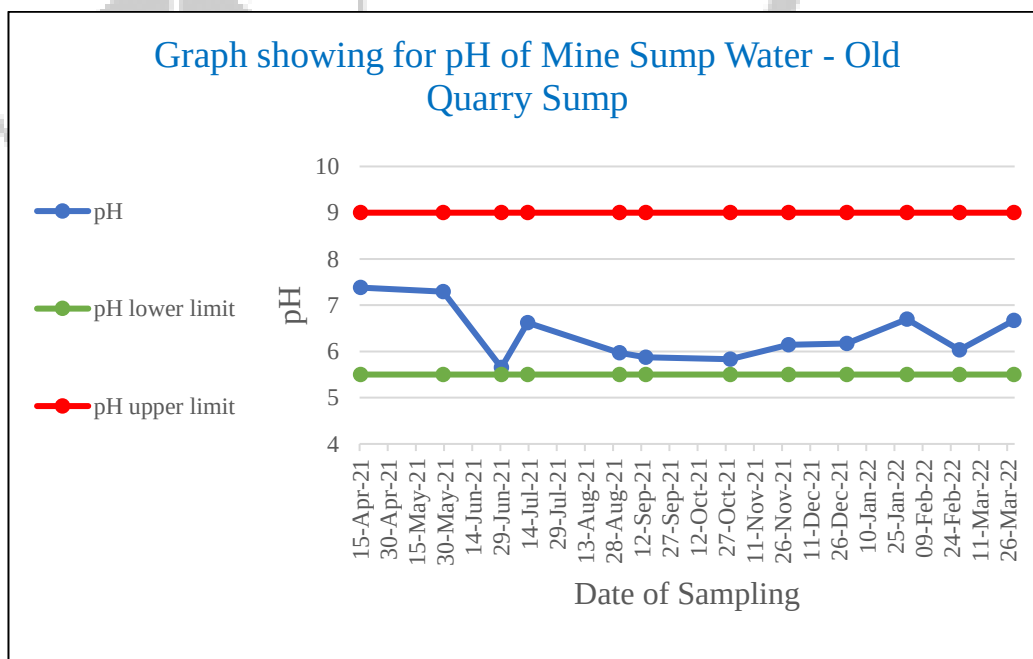
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Table: :9.14
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Mine Sump Water - Old Quarry Sump

All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH
15-Apr-21	7.38
29-May-21	7.29
29-Jun-21	5.65
13-Jul-21	6.62
31-Aug-21	5.97
14-Sep-21	5.87
29-Oct-21	5.83
29-Nov-21	6.14
30-Dec-21	6.17
31-Jan-22	6.7
28-Feb-22	6.03
29-Mar-22	6.67
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH
	5.5-9.0



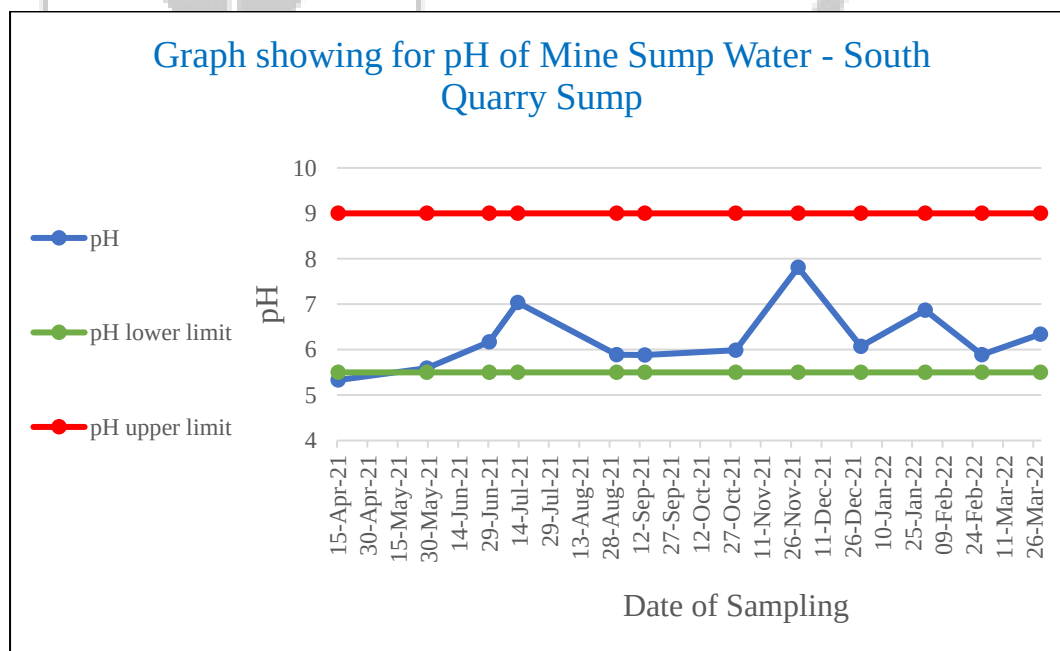
**PREPARED BY: CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD.,
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Table: :9.15
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Mine Sump Water - South Quarry Sump

All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH
15-Apr-21	5.33
29-May-21	5.59
29-Jun-21	6.17
13-Jul-21	7.04
31-Aug-21	5.89
14-Sep-21	5.88
29-Oct-21	5.99
29-Nov-21	7.81
30-Dec-21	6.07
31-Jan-22	6.87
28-Feb-22	5.89
29-Mar-22	6.34
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH
	5.5-9.0



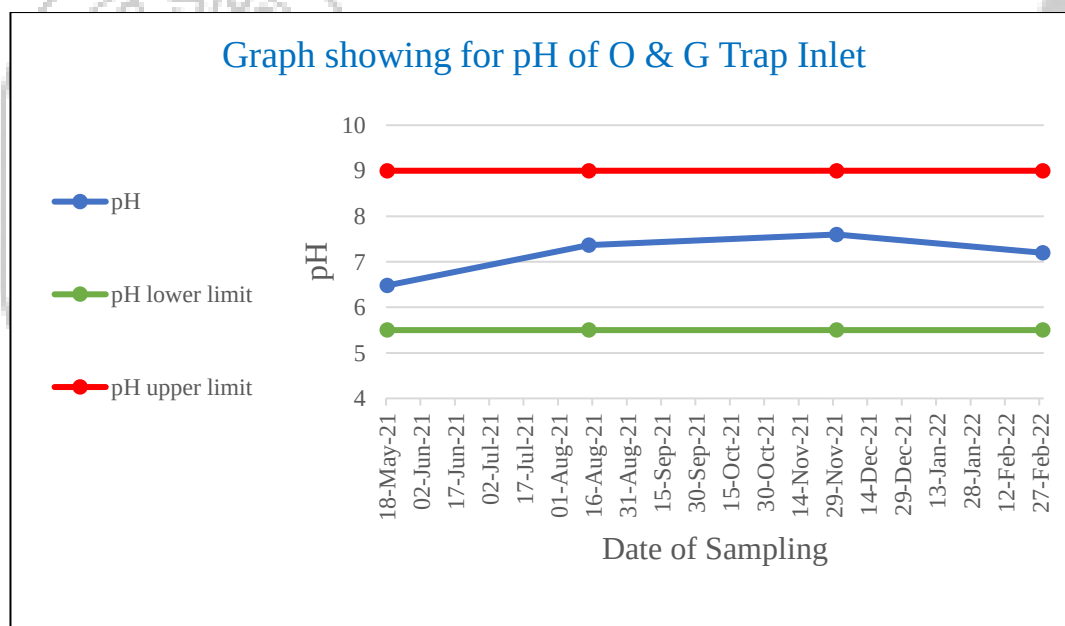
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Table: :9.16
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: O & G Trap Inlet

All dimensions are in mg/l unless otherwise stated except pH

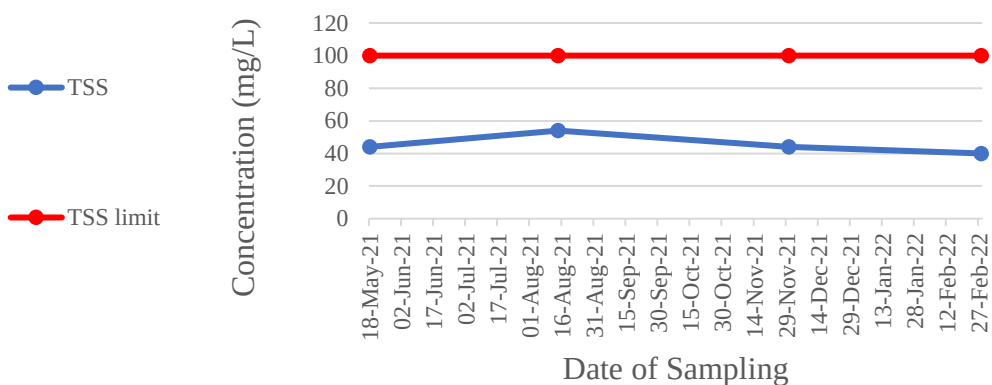
Date of Sampling	pH	Oil & Grease	TSS	COD
18-May-21	6.48	<4.0	44	36
14-Aug-21	7.37	<4.0	54	36
30-Nov-21	7.6	<4.0	44	32
28-Feb-22	7.2	<4.0	40	44
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250



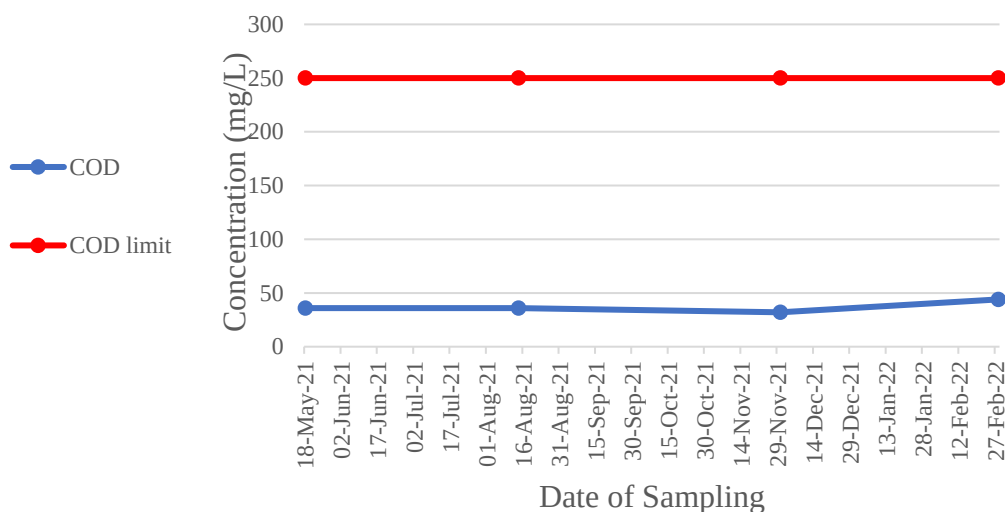
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JOB NO.750001

Graph showing for TSS of O & G Trap Inlet



Graph showing for COD of O & G Trap Inlet



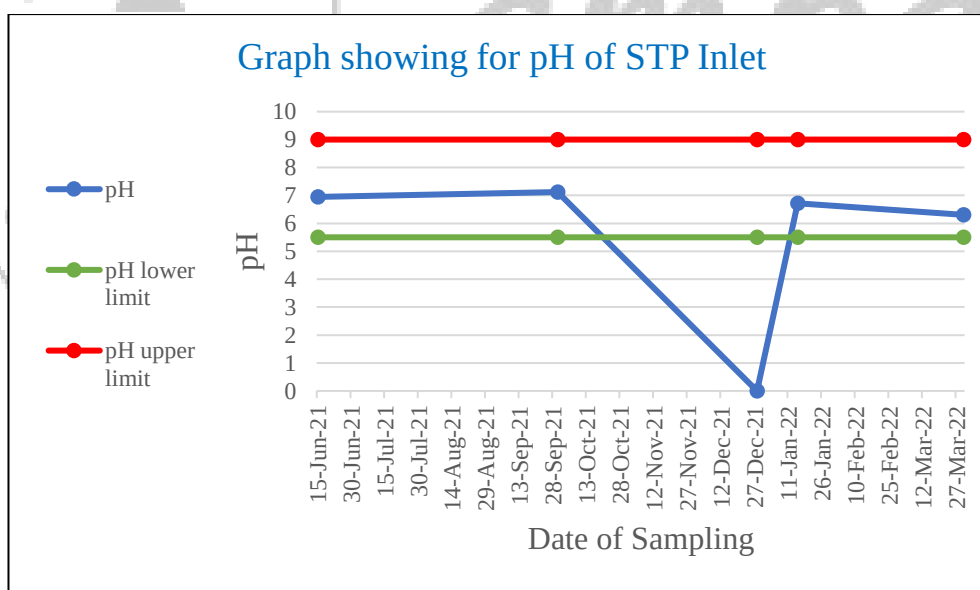
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Table: :9.17
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: STP Inlet

All dimensions are in mg/l unless otherwise stated except pH

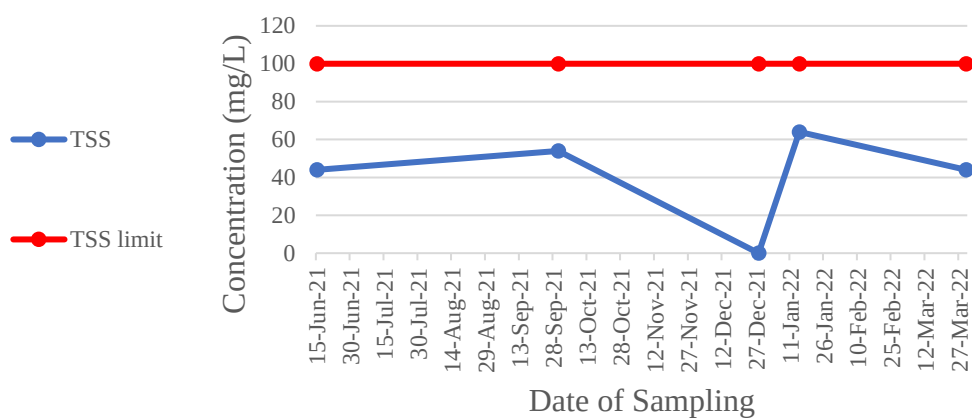
Date of Sampling	pH	TSS	BOD
15-Jun-21	6.95	44	<2.0
30-Sep-21	7.12	54	<2.0
28-Dec-21	Maintenance		
15-Jan-22	6.72	64	<2.0
30-Mar-22	6.3	44	<2
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	TSS	BOD
	5.5-9.0	100	30



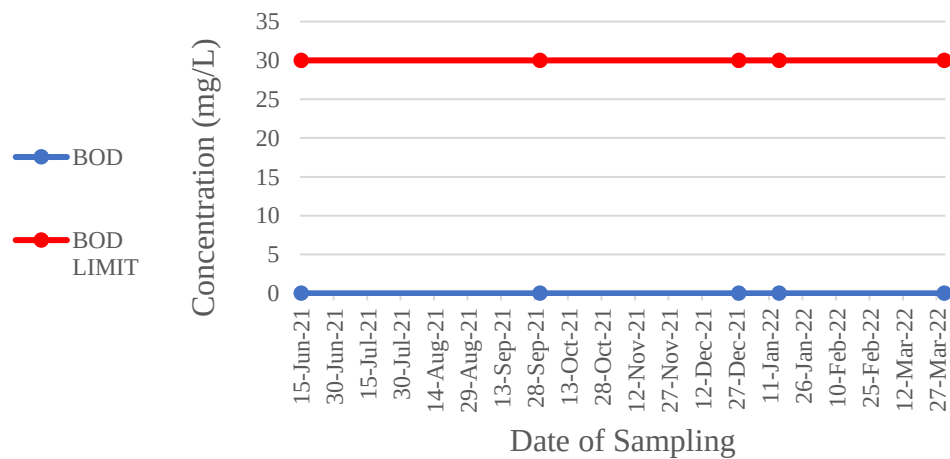
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Graph showing for TSS of STP Inlet



Graph showing for BOD of STP Inlet



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Table: :9.18
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: STP Outlet pH, TSS (Faecal Coliform) MPN, COD,
 BOD, O&G

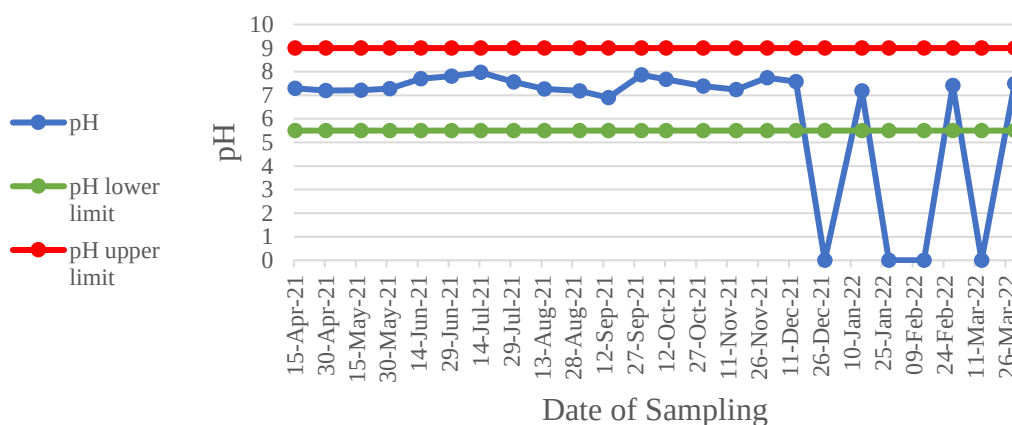
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD	BOD	MPN
15-Apr-21	7.29		36		<2.0	
30-Apr-21	7.2		42		<2.0	
17-May-21	7.21		38		<2.0	
31-May-21	7.28		28		<2.0	
15-Jun-21	7.7		38		<2.0	
30-Jun-21	7.81		30		<2.0	
14-Jul-21	7.97		44		<2.0	
30-Jul-21	7.56		36		<2.0	
14-Aug-21	7.27		62		<2.0	
31-Aug-21	7.18		68		<2.0	
14-Sep-21	6.9		40		<2.0	
30-Sep-21	7.86		34		<2.0	
12-Oct-21	7.68	-	38	-	<2.0	
30-Oct-21	7.39	-	34	-	<2.0	
15-Nov-21	7.24	-	28	-	<2.0	<1.8
30-Nov-21	7.74	-	38	-	<2.0	<1.8
14-Dec-21	7.58	<4.0	24	32	<2.0	1.8
28-Dec-21	-	-	-	-	-	Maintenance
15-Jan-22	7.18	<4.0	46	40	<2.0	1.8
28-Jan-22	-	-	-	-	-	DRY
14-Feb-22	-	-	-	-	-	Maintenance
28-Feb-22	7.41	<4.0	46	18	<2.0	<1.8
14-Mar-22	-	-	-	-	-	Maintenance
30-Mar-22	7.5	<4.0	30	20	<2	<1.8
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD	
	5.5-9.0	10	100	250	30	

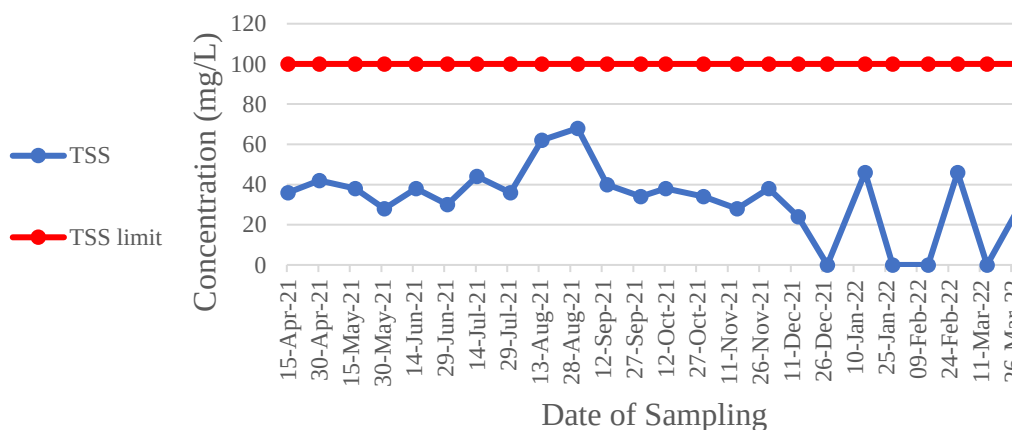
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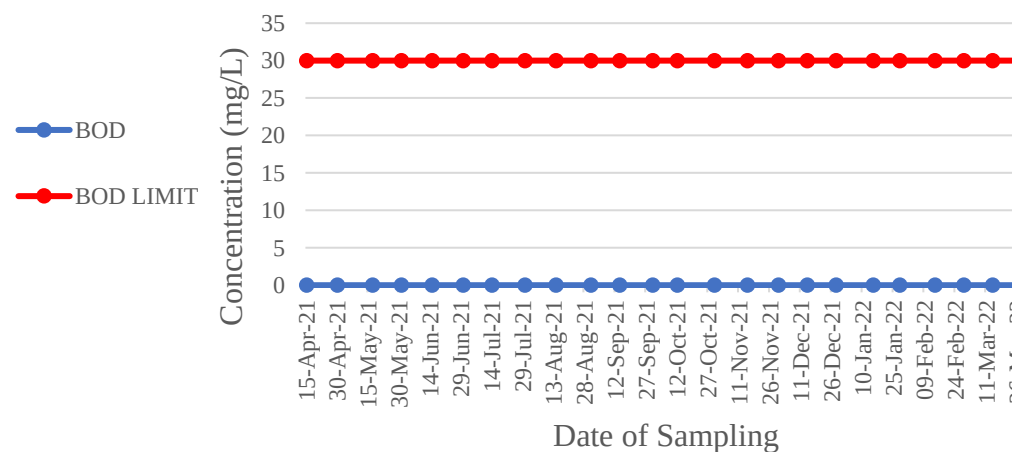
Graph showing for pH of STP Outlet



Graph showing for TSS of STP Outlet



Graph showing for BOD of STP Outlet



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Table: :9.19
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Workshop ETP Clear Water Tank

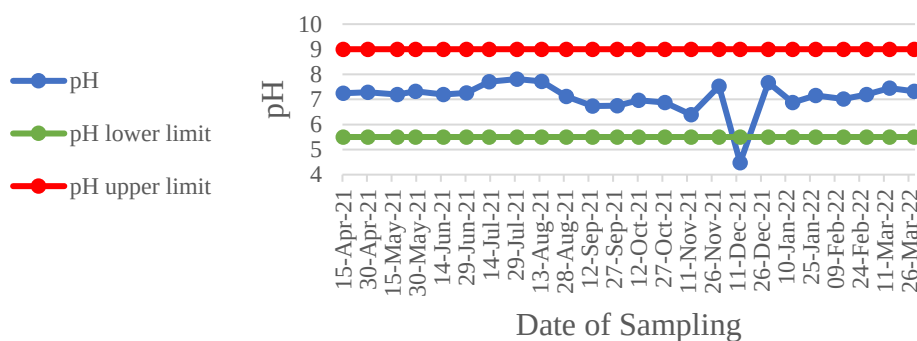
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
15-Apr-21	7.24	<4.0	34	24
30-Apr-21	7.29	<4.0	38	28
18-May-21	7.19	<4.0	26	16
29-May-21	7.32	<4.0	18	12
15-Jun-21	7.2	<4.0	34	28
29-Jun-21	7.26	<4.0	56	40
13-Jul-21	7.7	<4.0	30	24
30-Jul-21	7.81	<4.0	58	44
14-Aug-21	7.72	<4.0	58	44
29-Aug-21	7.12	<4.0	26	20
14-Sep-21	6.74	<4.0	24	20
29-Sep-21	6.75	<4.0	126	268
12-Oct-21	6.96	<4.0	34	28
28-Oct-21	6.87	<4.0	40	32
13-Nov-21	6.39	<4.0	26	32
30-Nov-21	7.53	<4.0	32	36
13-Dec-21	4.48	<4.0	32	28
30-Dec-21	7.67	<4.0	28	68
14-Jan-22	6.87	<4.0	52	44
28-Jan-22	7.15	<4.0	16	32
14-Feb-22	7.02	<4.0	22	28
28-Feb-22	7.19	<4.0	30	40
14-Mar-22	7.45	<4.0	32	24
29-Mar-22	7.32	<4.0	38	24
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

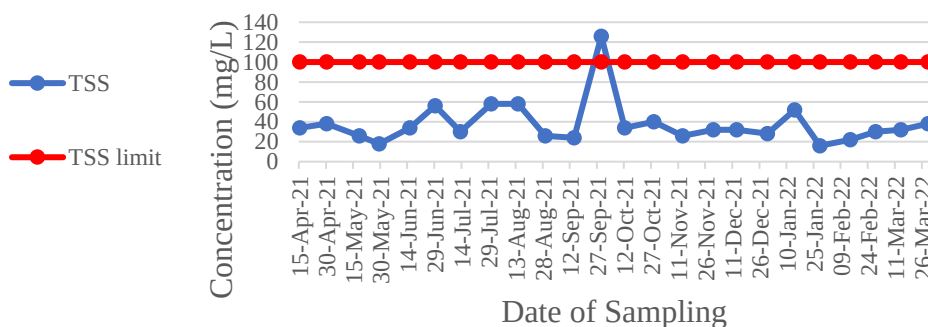
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JOB NO.750001

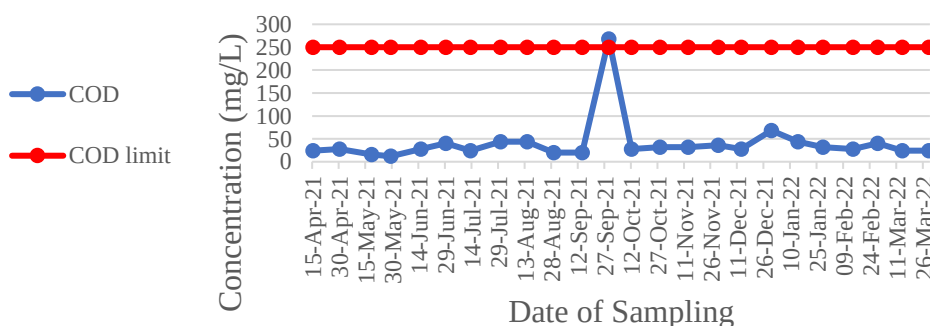
Graph showing for pH of Workshop ETP Clear Water Tank



Graph showing for TSS of Workshop ETP Clear Water Tank



Graph showing for COD of Workshop ETP Clear Water Tank



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Table: :9.20
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Clear Water Pond

All dimensions are in mg/l unless otherwise stated except pH

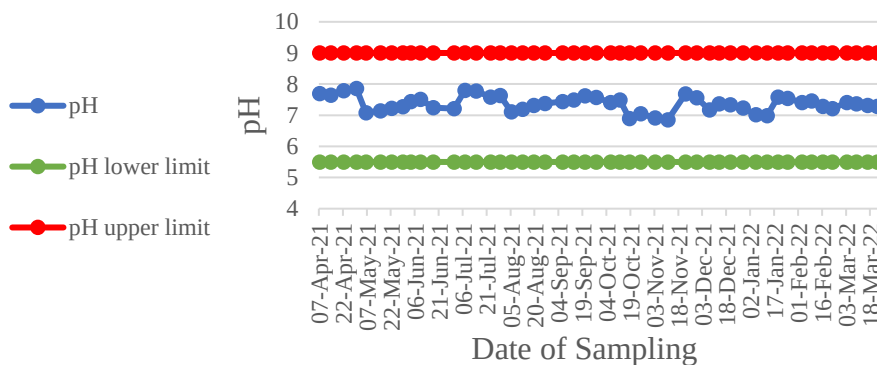
Date of Sampling	pH	Oil & Grease	TSS	COD
07-Apr-21	7.7	<4.0	26	12
14-Apr-21	7.65	<4.0	20	16
22-Apr-21	7.79	<4.0	34	20
30-Apr-21	7.86	<4.0	38	24
06-May-21	7.08	<4.0	68	64
15-May-21	7.14	<4.0	60	56
22-May-21	7.22	<4.0	62	68
29-May-21	7.28	<4.0	56	64
03-Jun-21	7.44	<4.0	40	32
09-Jun-21	7.51	<4.0	46	36
17-Jun-21	7.24	<4.0	26	12
30-Jun-21	7.21	<4.0	34	16
07-Jul-21	7.8	<4.0	44	32
14-Jul-21	7.78	<4.0	36	24
23-Jul-21	7.58	<4.0	64	48
29-Jul-21	7.63	<4.0	68	52
05-Aug-21	7.11	<4.0	40	28
12-Aug-21	7.19	<4.0	44	32
19-Aug-21	7.32	<4.0	28	20
26-Aug-21	7.38	<4.0	34	24
06-Sep-21	7.44	<4.0	74	72
13-Sep-21	7.49	<4.0	68	64
20-Sep-21	7.62	<4.0	58	52
27-Sep-21	7.57	<4.0	46	40
06-Oct-21	7.41	<4.0	48	40
12-Oct-21	7.49	<4.0	40	32
18-Oct-21	6.89	<4.0	40	32
25-Oct-21	7.05	<4.0	44	36
03-Nov-21	6.92	<4.0	42	36
11-Nov-21	6.85	<4.0	46	40
22-Nov-21	7.69	<4.0	28	24
29-Nov-21	7.56	<4.0	36	32
07-Dec-21	7.17	<4.0	30	40
13-Dec-21	7.37	<4.0	36	24
20-Dec-21	7.34	<4.0	20	16
28-Dec-21	7.23	<4.0	16	20
05-Jan-22	7.02	<4.0	36	32
12-Jan-22	6.99	<4.0	42	40
19-Jan-22	7.58	<4.0	54	56
25-Jan-22	7.54	<4.0	58	52
03-Feb-22	7.41	<4.0	46	40
09-Feb-22	7.46	<4.0	52	36
16-Feb-22	7.29	<4.0	48	44
22-Feb-22	7.21	<4.0	40	28
03-Mar-22	7.41	<4.0	52	40
09-Mar-22	7.37	<4.0	48	36
16-Mar-22	7.32	<4.0	44	32
22-Mar-22	7.29	<4.0	40	32

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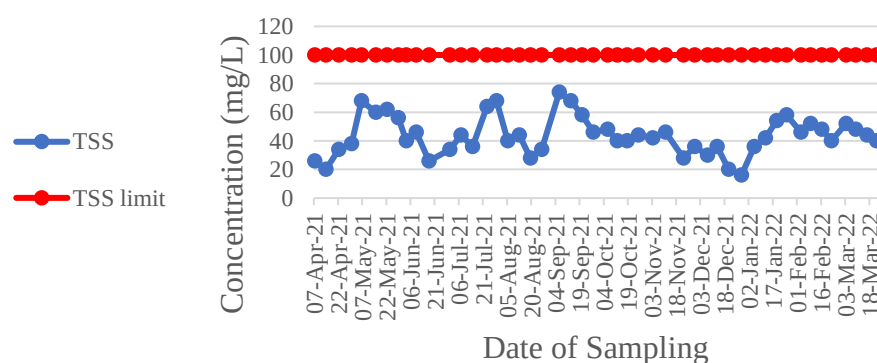
JOB NO.750001

MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

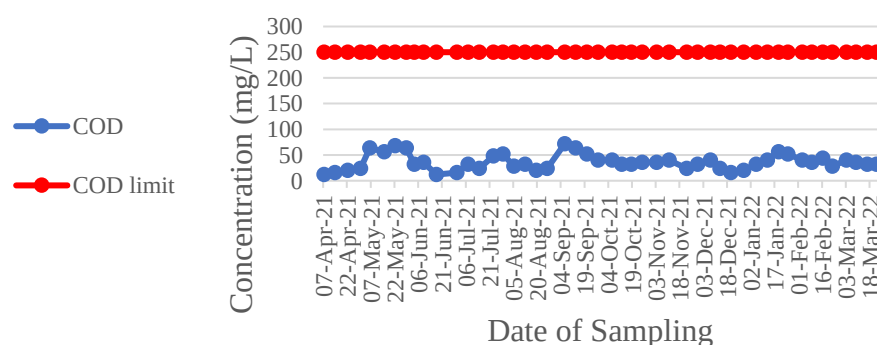
Graph showing for pH of Clear Water Pond



Graph showing for TSS of Clear Water Pond



Graph showing for COD of Clear Water Pond



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Table: :9.21
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Kansamunda Sump

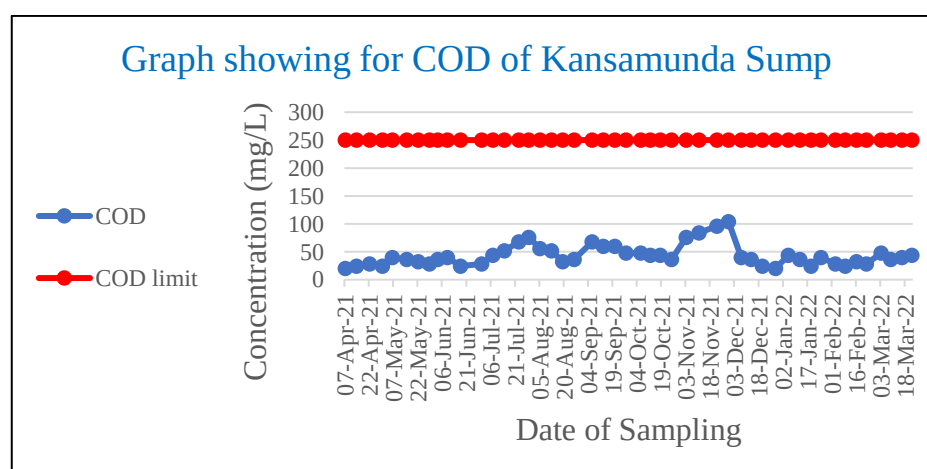
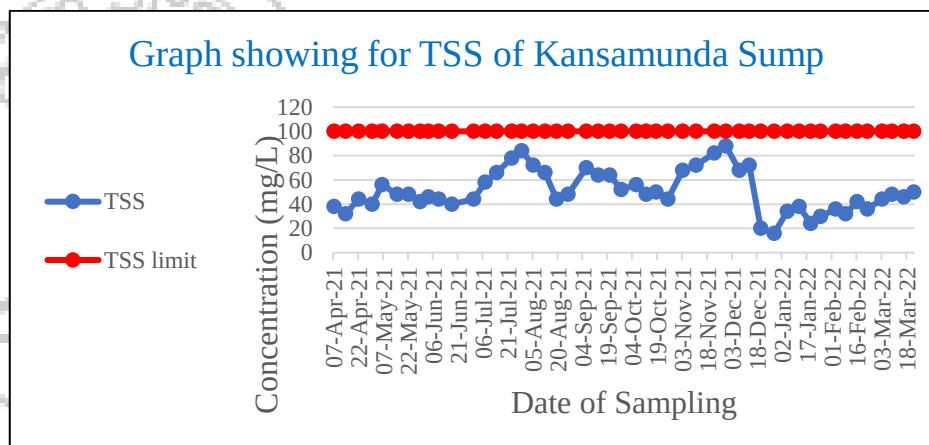
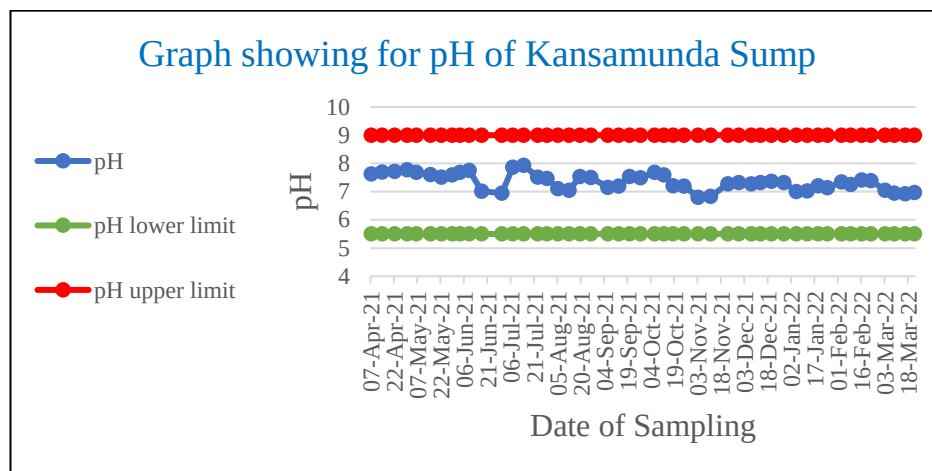
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
07-Apr-21	7.63	<4.0	38	20
14-Apr-21	7.69	<4.0	32	24
22-Apr-21	7.72	<4.0	44	28
30-Apr-21	7.77	<4.0	40	24
06-May-21	7.68	<4.0	56	40
15-May-21	7.6	<4.0	48	36
22-May-21	7.51	<4.0	48	32
29-May-21	7.59	<4.0	42	28
03-Jun-21	7.68	<4.0	46	36
09-Jun-21	7.75	<4.0	44	40
17-Jun-21	7.01	<4.0	40	24
30-Jun-21	6.94	<4.0	44	28
07-Jul-21	7.87	<4.0	58	44
14-Jul-21	7.93	<4.0	66	52
23-Jul-21	7.51	<4.0	78	68
29-Jul-21	7.47	<4.0	84	76
05-Aug-21	7.1	<4.0	72	56
12-Aug-21	7.05	<4.0	66	52
19-Aug-21	7.53	<4.0	44	32
26-Aug-21	7.5	<4.0	48	36
06-Sep-21	7.15	<4.0	70	68
13-Sep-21	7.19	<4.0	64	60
20-Sep-21	7.53	<4.0	64	60
27-Sep-21	7.49	<4.0	52	48
06-Oct-21	7.68	<4.0	56	48
12-Oct-21	7.59	<4.0	48	44
18-Oct-21	7.21	<4.0	50	44
25-Oct-21	7.19	<4.0	44	36
03-Nov-21	6.8	<4.0	68	76
11-Nov-21	6.83	<4.0	72	84
22-Nov-21	7.27	<4.0	82	96
29-Nov-21	7.32	<4.0	88	104
07-Dec-21	7.28	<4.0	68	40
13-Dec-21	7.32	<4.0	72	36
20-Dec-21	7.37	<4.0	20	24
28-Dec-21	7.32	<4.0	16	20
05-Jan-22	7	<4.0	34	44
12-Jan-22	7.03	<4.0	38	36
19-Jan-22	7.21	<4.0	24	24
25-Jan-22	7.14	<4.0	30	40
03-Feb-22	7.34	<4.0	36	28
09-Feb-22	7.25	<4.0	32	24
16-Feb-22	7.41	<4.0	42	32
22-Feb-22	7.39	<4.0	36	28
03-Mar-22	7.05	<4.0	44	48
09-Mar-22	6.94	<4.0	48	36
16-Mar-22	6.92	<4.0	46	40
22-Mar-22	6.97	<4.0	50	44

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MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250



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JOB NO.750001

Table: :9.22
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Pre-Sedimentation Pond

All dimensions are in mg/l unless otherwise stated except pH

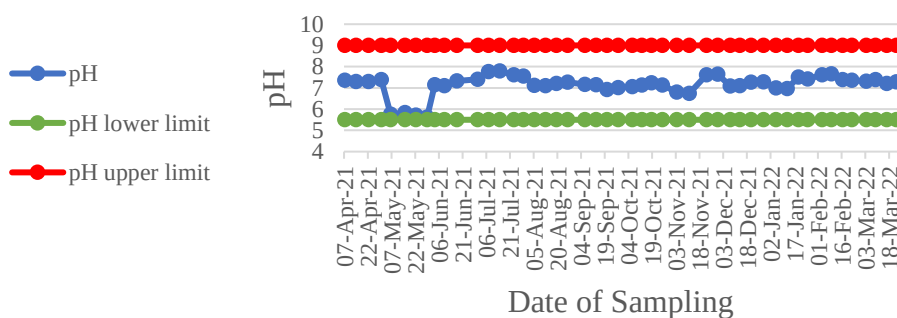
Date of Sampling	pH	Oil & Grease	TSS	COD
07-Apr-21	7.36	<4.0	14	8
14-Apr-21	7.3	<4.0	18	8
22-Apr-21	7.3	<4.0	20	12
30-Apr-21	7.39	<4.0	24	16
06-May-21	5.76	<4.0	52	36
15-May-21	5.84	<4.0	48	32
22-May-21	5.72	<4.0	44	28
29-May-21	5.62	<4.0	38	24
03-Jun-21	7.14	<4.0	42	36
09-Jun-21	7.1	<4.0	48	40
17-Jun-21	7.32	<4.0	32	16
30-Jun-21	7.4	<4.0	36	20
07-Jul-21	7.77	<4.0	42	28
14-Jul-21	7.79	<4.0	38	24
23-Jul-21	7.62	<4.0	58	40
29-Jul-21	7.56	<4.0	52	36
05-Aug-21	7.12	<4.0	34	28
12-Aug-21	7.1	<4.0	38	32
19-Aug-21	7.2	<4.0	26	16
26-Aug-21	7.26	<4.0	30	20
06-Sep-21	7.16	<4.0	86	96
13-Sep-21	7.14	<4.0	80	92
20-Sep-21	6.92	<4.0	24	16
27-Sep-21	7.01	<4.0	34	24
06-Oct-21	7.06	<4.0	28	20
12-Oct-21	7.13	<4.0	34	28
18-Oct-21	7.23	<4.0	34	28
25-Oct-21	7.13	<4.0	40	32
03-Nov-21	6.8	<4.0	38	32
11-Nov-21	6.74	<4.0	44	40
22-Nov-21	7.62	<4.0	64	68
29-Nov-21	7.65	<4.0	56	60
07-Dec-21	7.08	<4.0	18	44
13-Dec-21	7.1	<4.0	22	36
20-Dec-21	7.27	<4.0	16	20
28-Dec-21	7.28	<4.0	22	24
05-Jan-22	7	<4.0	56	20
12-Jan-22	6.96	<4.0	44	24
19-Jan-22	7.51	<4.0	34	44
25-Jan-22	7.42	<4.0	26	32
03-Feb-22	7.61	<4.0	38	32
09-Feb-22	7.66	<4.0	30	36
16-Feb-22	7.39	<4.0	34	40
22-Feb-22	7.35	<4.0	28	20

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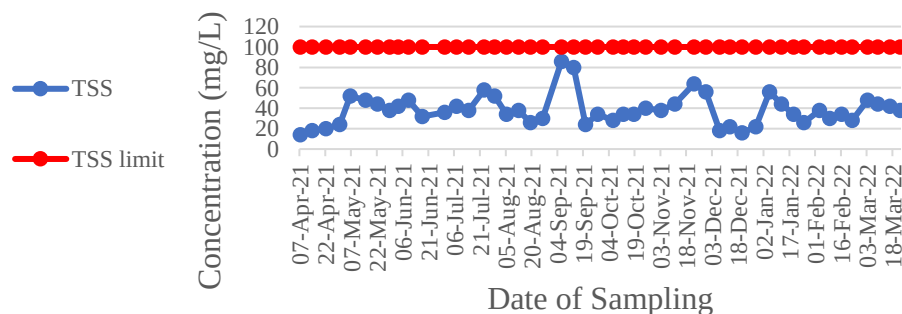
JOB NO.750001

03-Mar-22	7.31	<4.0	48	40
09-Mar-22	7.39	<4.0	44	32
16-Mar-22	7.2	<4.0	42	36
22-Mar-22	7.28	<4.0	38	24
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

Graph showing for pH of Pre Sedimentation Pond



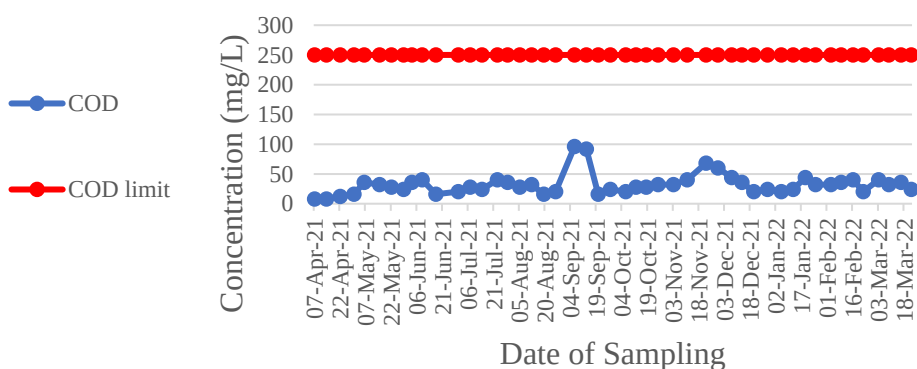
Graph showing for TSS of Pre Sedimentation Pond



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Graph showing for COD of Pre Sedimentation Pond



cmpdi
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JOB NO.750001

Table: :9.23
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Z-Patch Sump

All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
07-Apr-21	6.88	<4.0	28	16
14-Apr-21	6.81	<4.0	34	20
22-Apr-21	In Accessible			
30-Apr-21	In Accessible			
06-May-21	6.56	<4.0	36	28
15-May-21	6.68	<4.0	30	24
22-May-21	6.65	<4.0	28	20
29-May-21	6.69	<4.0	32	24
03-Jun-21	7.3	<4.0	34	28
09-Jun-21	7.25	<4.0	40	36
17-Jun-21	7.19	<4.0	30	16
30-Jun-21	7.15	<4.0	34	20
07-Jul-21	7.69	<4.0	40	28
14-Jul-21	7.6	<4.0	36	24
23-Jul-21	7.38	<4.0	88	80
29-Jul-21	7.44	<4.0	80	72
05-Aug-21	7.03	<4.0	68	48
12-Aug-21	6.98	<4.0	64	44
19-Aug-21	7.65	<4.0	54	32
26-Aug-21	7.58	<4.0	48	40
06-Sep-21	8.08	<4.0	64	56
13-Sep-21	8.14	<4.0	68	64
20-Sep-21	7.72	<4.0	48	32
27-Sep-21	7.68	<4.0	36	28
06-Oct-21	7.65	<4.0	54	36
12-Oct-21	7.73	<4.0	46	40
18-Oct-21	7.19	<4.0	42	32
25-Oct-21	7.13	<4.0	48	40
03-Nov-21	6.88	<4.0	76	88
11-Nov-21	6.9	<4.0	68	80
22-Nov-21	7.26	<4.0	54	64
29-Nov-21	7.34	<4.0	58	56
07-Dec-21	7.34	<4.0	74	40
13-Dec-21	7.34	<4.0	76	96
20-Dec-21	7.36	<4.0	20	16
28-Dec-21	7.33	<4.0	16	24
05-Jan-22	7.02	<4.0	32	44
12-Jan-22	7.08	<4.0	28	36
19-Jan-22	7.43	<4.0	36	20
25-Jan-22	7.5	<4.0	40	36
03-Feb-22	7.38	<4.0	46	32
09-Feb-22	7.46	<4.0	40	28
16-Feb-22	7.51	<4.0	52	36

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22-Feb-22	7.47	<4.0	46	32
03-Mar-22	6.78	<4.0	54	40
09-Mar-22	6.75	<4.0	50	32
16-Mar-22	6.86	<4.0	58	36
22-Mar-22	6.81	<4.0	52	40
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

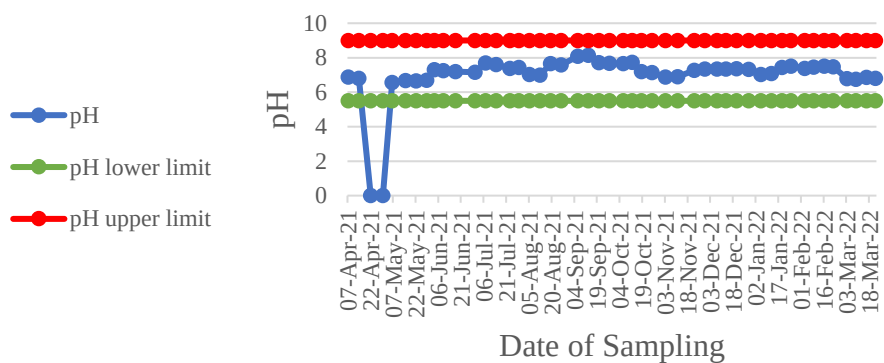


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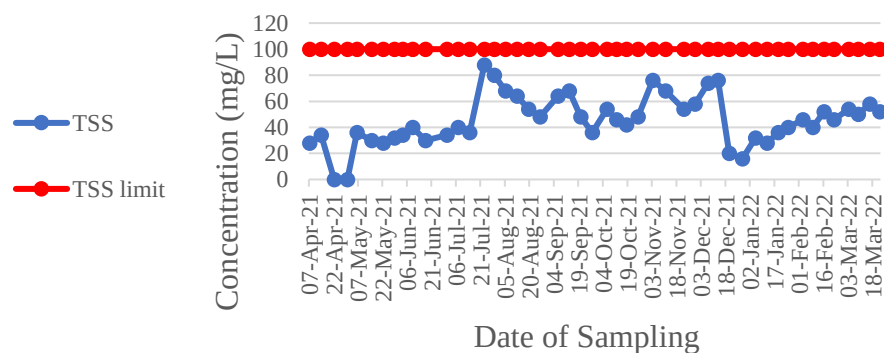
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JOB NO.750001

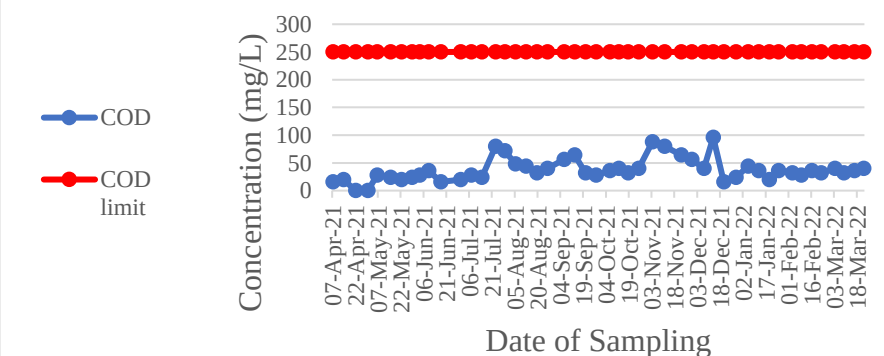
Graph showing for pH of Z-Patch Sump



Graph showing for TSS of Z-Patch Sump



Graph showing for COD of Z-Patch Sump



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JOB NO.750001

Table: :9.24
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Clear Water Reservoir of Workshop ETP

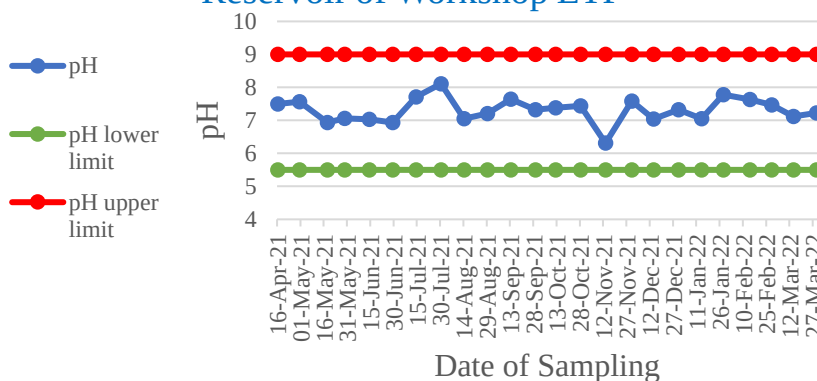
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
16-Apr-21	7.5	<4.0	24	16
30-Apr-21	7.57	<4.0	32	20
18-May-21	6.94	<4.0	64	52
29-May-21	7.06	<4.0	56	44
14-Jun-21	7.03	<4.0	40	28
29-Jun-21	6.94	<4.0	38	20
14-Jul-21	7.71	<4.0	38	32
30-Jul-21	8.11	<4.0	40	32
14-Aug-21	7.05	<4.0	46	40
29-Aug-21	7.21	<4.0	46	32
13-Sep-21	7.64	<4.0	22	16
29-Sep-21	7.32	<4.0	46	28
12-Oct-21	7.38	<4.0	40	32
28-Oct-21	7.44	<4.0	46	40
13-Nov-21	6.31	<4.0	20	16
30-Nov-21	7.59	<4.0	24	16
14-Dec-21	7.04	<4.0	20	16
30-Dec-21	7.32	<4.0	12	16
14-Jan-22	7.05	<4.0	38	28
28-Jan-22	7.78	<4.0	26	36
14-Feb-22	7.63	<4.0	34	36
28-Feb-22	7.47	<4.0	42	32
14-Mar-22	7.12	<4.0	30	24
29-Mar-22	7.23	<4.0	38	32
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

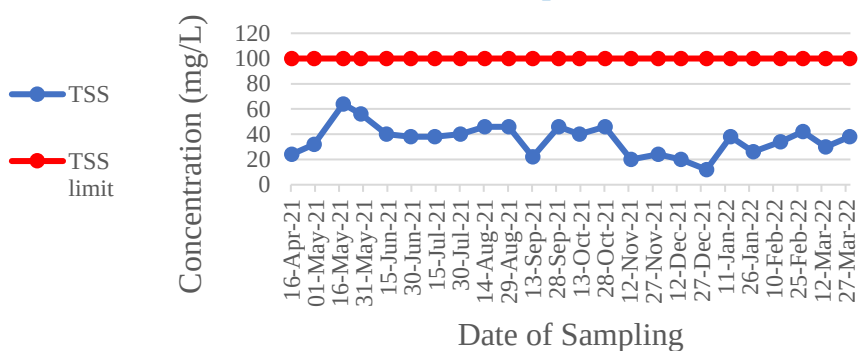
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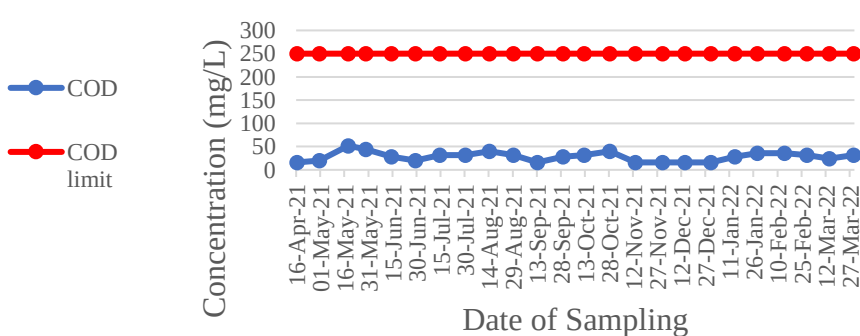
Graph showing for pH of Clear Water
Reservoir of Workshop ETP



Graph showing for TSS of Clear Water
Reservoir of Workshop ETP



Graph showing for COD of Clear Water
Reservoir of Workshop ETP



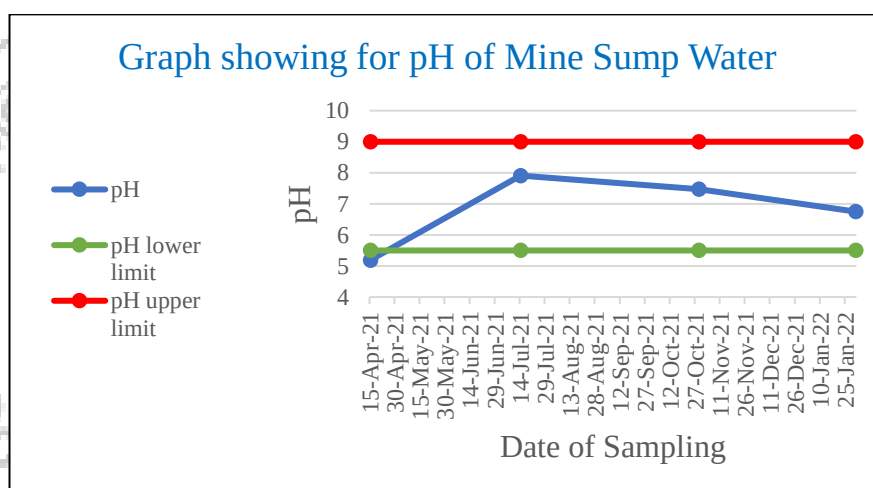
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JOB NO.750001

Table: :9.25
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Mine Sump Water

All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH
15-Apr-21	5.19
14-Jul-21	7.91
29-Oct-21	7.47
31-Jan-22	6.75
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH
	5.5-9.0



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JOB NO.750001

Table: :9.26

Area: Lingaraj

Project: Lingaraj OCP

Monitoring Station: Inlet of MDTP Near Stock No. 17

All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Aug-21	6.79	<4.0	54	40
01-Sep-21	7.63	<4.0	28	16
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250



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Table: :9.27

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring Station:** Clear Water Tank of MDTP Near Stock No. 17*All dimensions are in mg/l unless otherwise stated except pH*

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Aug-21	6.95	<4.0	66	56
01-Sep-21	7.72	<4.0	48	32
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250



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Table: :9.28

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring Station:** Clear Water Tank of Sedimentation Pond Complex
Near Deulbera Siding*All dimensions are in mg/l unless otherwise stated except pH*

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Feb-22	6.95	<4.0	30	24

Table: :9.29

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring Station:** Clear Water Reservoir of Sedimentation Pond
Complex near Project Office*All dimensions are in mg/l unless otherwise stated except pH*

Date of Sampling	pH	Oil & Grease	TSS	COD
30-Nov-21	7.41	<4.0	22	16

Table: :9.30

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring Station:** Inlet of Sedimentation Pond Complex Near Deulbera
Siding*All dimensions are in mg/l unless otherwise stated except pH*

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Feb-22	6.86	<4.0	36	28
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

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Table: :9.31

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring Station:** Clear Water Tank of Sedimentation Pond Complex
Near Lingraj Siding

All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
30-Nov-21	7.85	<4.0	36	32
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

Table: :9.32

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring Station:** Inlet of Sedimentation Pond Complex near Lingraj
Siding

All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
30-Nov-21	7.23	<4.0	30	20
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

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Table: :9.33

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring Station:** Inlet of Sedimentation Pond Complex near Project Office*All dimensions are in mg/l unless otherwise stated except pH*

Date of Sampling	pH	Oil & Grease	TSS	COD
30-Nov-21	7.71	<4.0	40	32
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

Table: :9.34

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring Station:** Inlet of Workshop ETP*All dimensions are in mg/l unless otherwise stated except pH*

Date of Sampling	pH	Oil & Grease	TSS	COD
18-May-21	7.31	<4.0	44	64
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

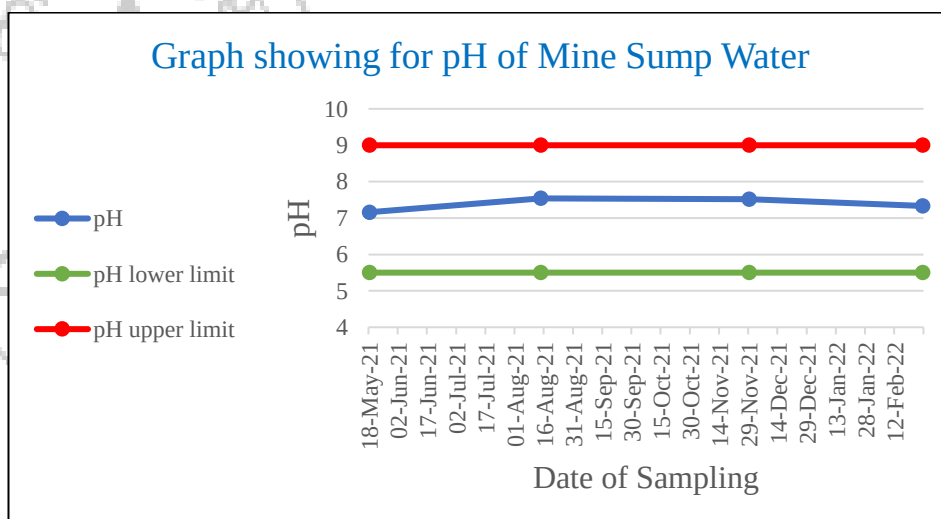
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Table: :9.35
Area: Hingula
Project: Hingula OCP
Monitoring Station: Mine Sump Water

All dimensions are in mg/l unless otherwise stated except pH

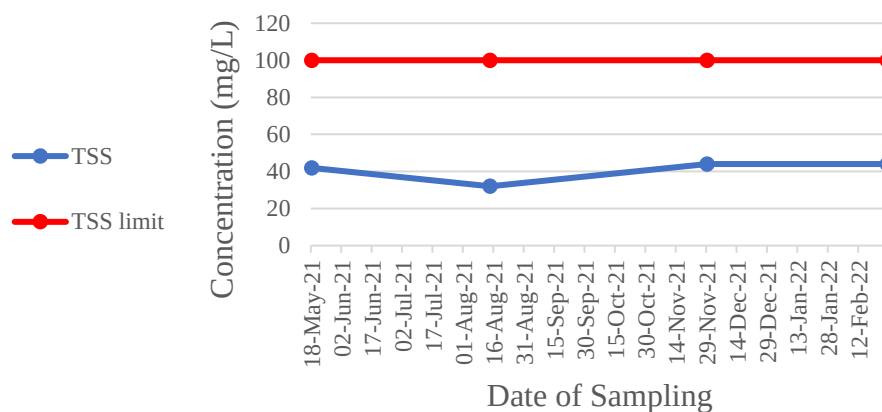
Date of Sampling	pH	Oil & Grease	TSS	COD
18-May-21	7.16	<4.0	42	28
14-Aug-21	7.54	<4.0	32	24
29-Nov-21	7.52	<4.0	44	28
26-Feb-22	7.33	<4.0	44	32
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250



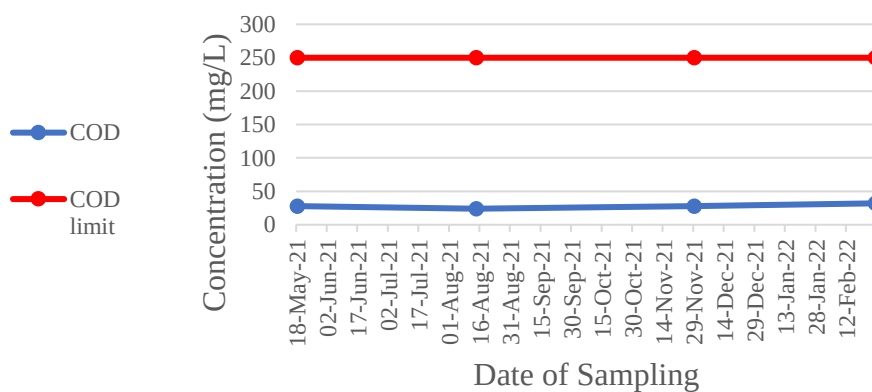
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Graph showing for TSS of Mine Sump Water



Graph showing for COD of Mine Sump Water



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Table: :9.36
Area: Hingula
Project: Hingula OCP
Monitoring Station: Inlet of O & G Trap

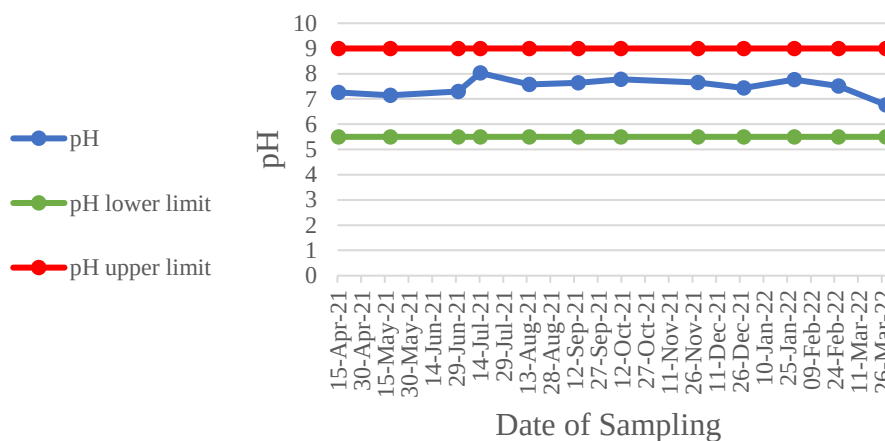
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
15-Apr-21	7.26	<4.0	44	32
18-May-21	7.14	<4.0	38	28
30-Jun-21	7.3	<4.0	66	60
14-Jul-21	8.03	<4.0	44	32
14-Aug-21	7.58	<4.0	60	44
14-Sep-21	7.64	<4.0	58	44
11-Oct-21	7.78	<4.0	64	52
29-Nov-21	7.65	<4.0	46	36
28-Dec-21	7.43	<4.0	28	28
29-Jan-22	7.76	<4.0	44	40
26-Feb-22	7.51	<4.0	52	44
28-Mar-22	6.77	<4.0	38	40
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

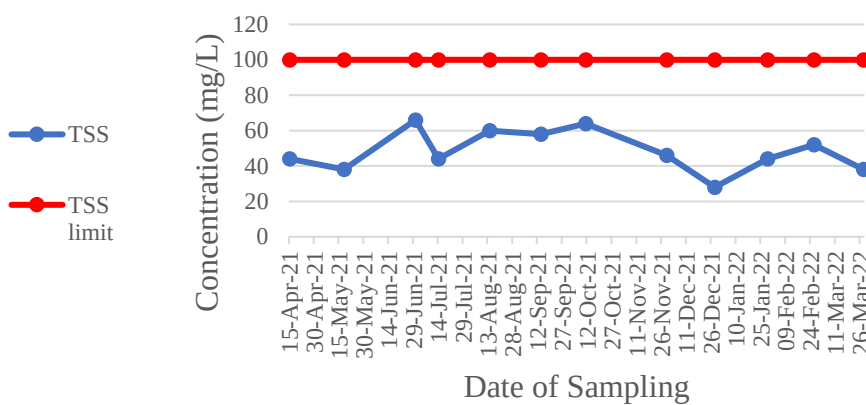
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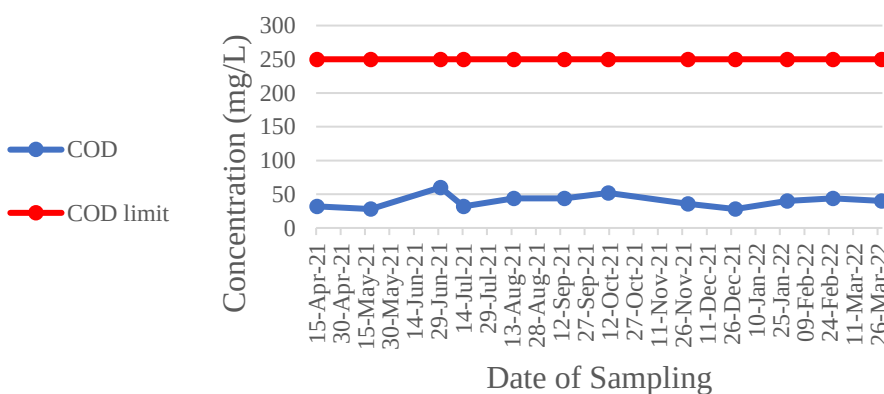
Graph showing for pH of Inlet of O & G Trap



Graph showing for TSS of Inlet of O & G Trap



Graph showing for COD of Inlet of O & G Trap



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Table: :9.37
Area: Hingula
Project: Hingula OCP
Monitoring Station: Outlet of O & G Trap

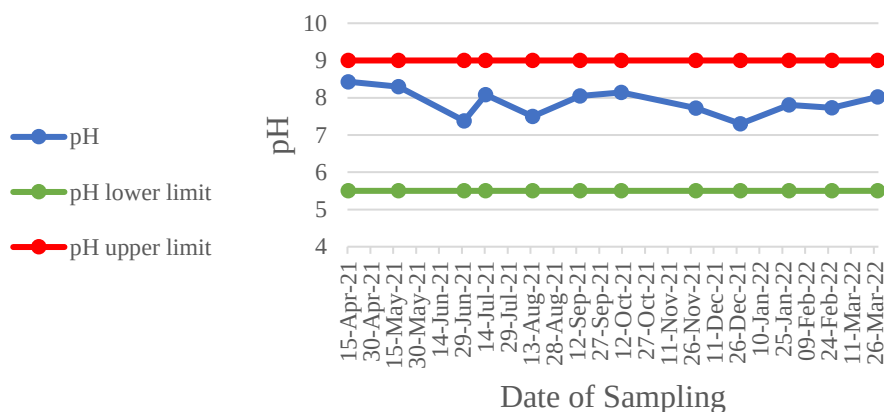
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
15-Apr-21	8.43	<4.0	38	28
18-May-21	8.3	<4.0	30	24
30-Jun-21	7.38	<4.0	36	28
14-Jul-21	8.08	<4.0	36	24
14-Aug-21	7.5	<4.0	44	28
14-Sep-21	8.05	<4.0	26	20
11-Oct-21	8.14	<4.0	34	28
29-Nov-21	7.72	<4.0	42	32
28-Dec-21	7.3	<4.0	24	32
29-Jan-22	7.81	<4.0	36	32
26-Feb-22	7.73	<4.0	40	36
28-Mar-22	8.02	<4.0	26	28
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

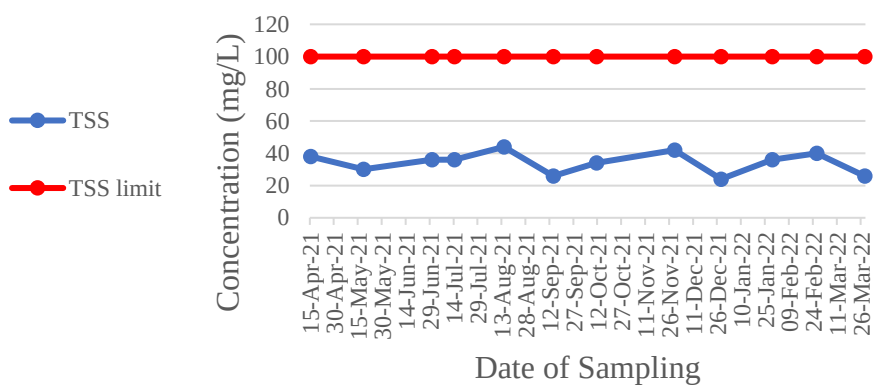
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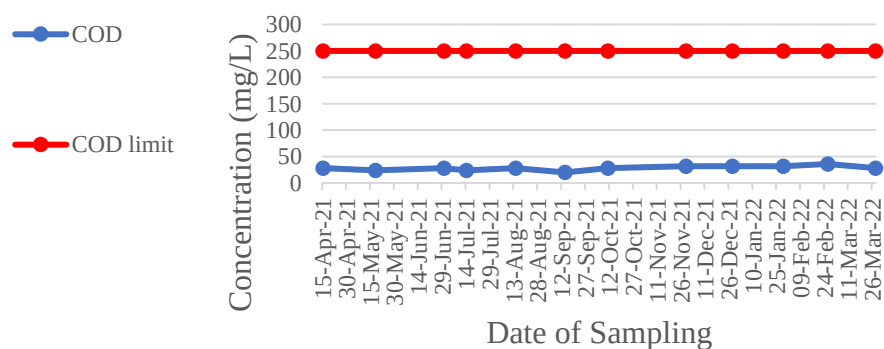
Graph showing for pH of Outlet of O & G Trap



Graph showing for TSS of Outlet of O & G Trap



Graph showing for COD of Outlet of O & G Trap



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Table: :9.38
Area: Hingula
Project: Balram OCP
Monitoring Station: Mine Sump Water

All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
18-May-21	7.06	<4.0	44	32
14-Aug-21	7.25	<4.0	36	20
29-Nov-21	7.56	<4.0	24	20
26-Feb-22	7.53	<4.0	40	32
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

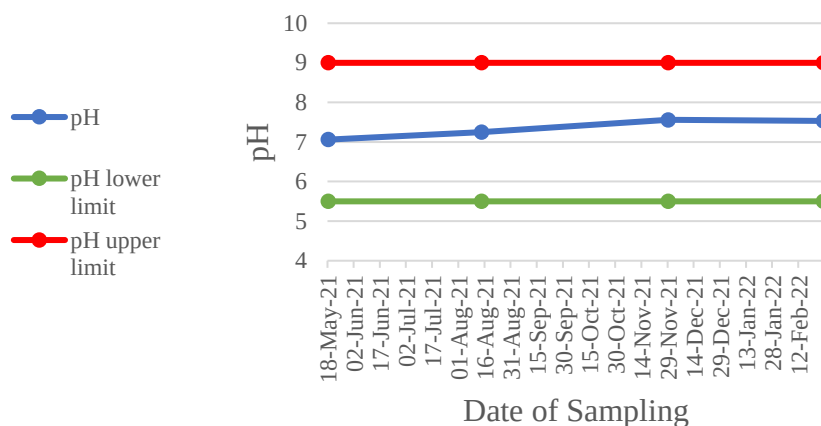


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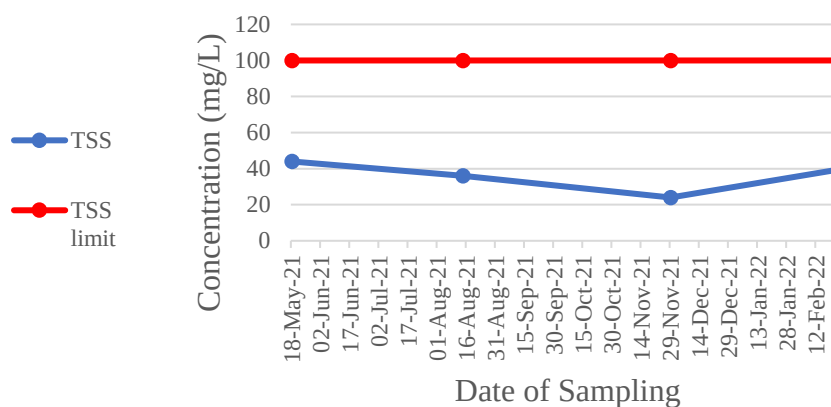
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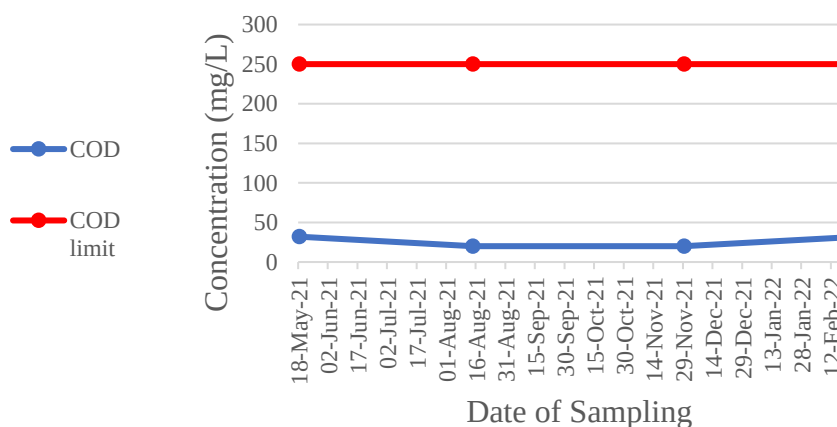
Graph showing for pH of Mine Sump Water



Graph showing for TSS of Mine Sump Water



Graph showing for COD of Mine Sump Water



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Table: :9.39
Area: Hingula
Project: Balram OCP
Monitoring Station: Inlet of O & G Trap

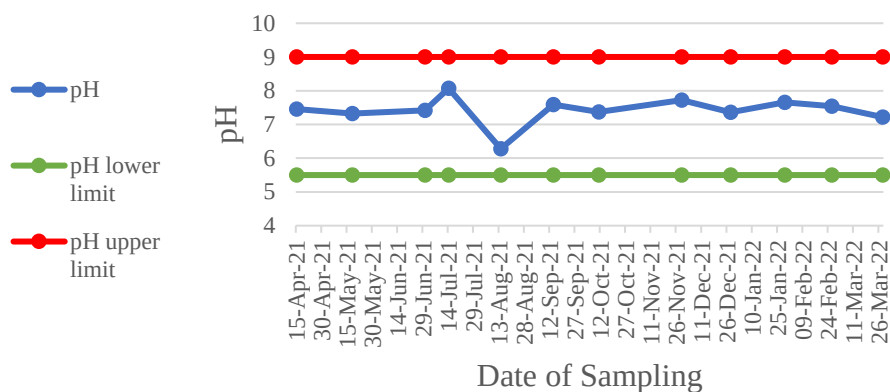
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
15-Apr-21	7.46	<4.0	56	40
18-May-21	7.32	<4.0	48	36
30-Jun-21	7.42	<4.0	56	44
14-Jul-21	8.07	<4.0	40	28
14-Aug-21	6.28	<4.0	54	36
14-Sep-21	7.59	<4.0	54	36
11-Oct-21	7.37	<4.0	58	48
29-Nov-21	7.72	<4.0	46	40
28-Dec-21	7.36	<4.0	20	32
29-Jan-22	7.65	<4.0	48	44
26-Feb-22	7.54	<4.0	54	36
28-Mar-22	7.22	<4.0	28	32
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

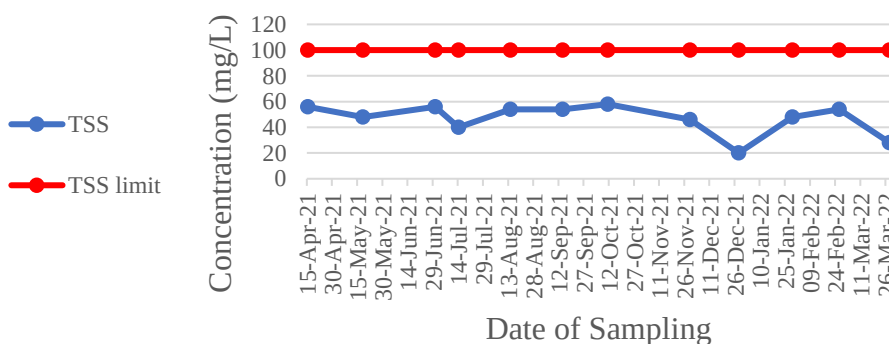
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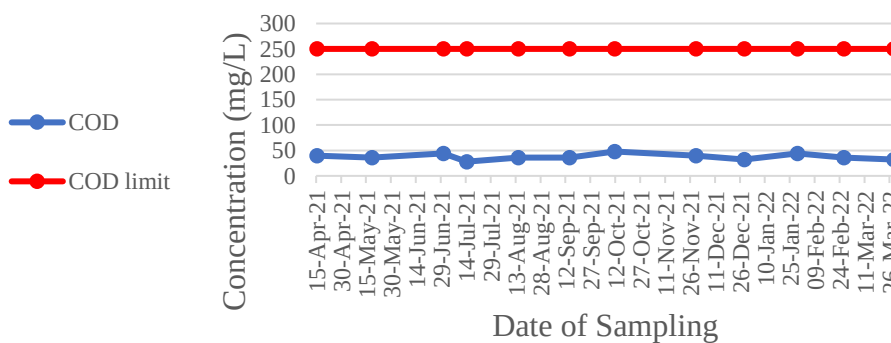
Graph showing for pH of Inlet of O & G Trap



Graph showing for TSS of Inlet of O & G Trap



Graph showing for COD of Inlet of O & G Trap



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Table: :9.40
Area: Hingula
Project: Balram OCP
Monitoring Station: Outlet of O & G Trap

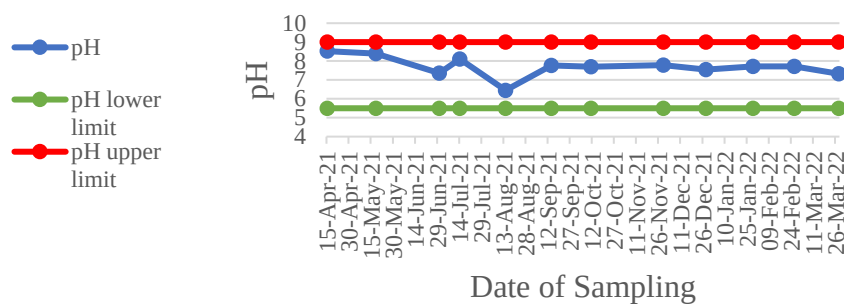
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
15-Apr-21	8.52	<4.0	50	36
18-May-21	8.39	<4.0	40	28
30-Jun-21	7.36	<4.0	30	20
14-Jul-21	8.1	<4.0	32	20
14-Aug-21	6.45	<4.0	42	24
14-Sep-21	7.76	<4.0	42	28
11-Oct-21	7.69	<4.0	40	28
29-Nov-21	7.79	<4.0	38	32
28-Dec-21	7.54	<4.0	18	28
29-Jan-22	7.71	<4.0	40	36
26-Feb-22	7.71	<4.0	46	28
28-Mar-22	7.32	<4.0	18	24
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

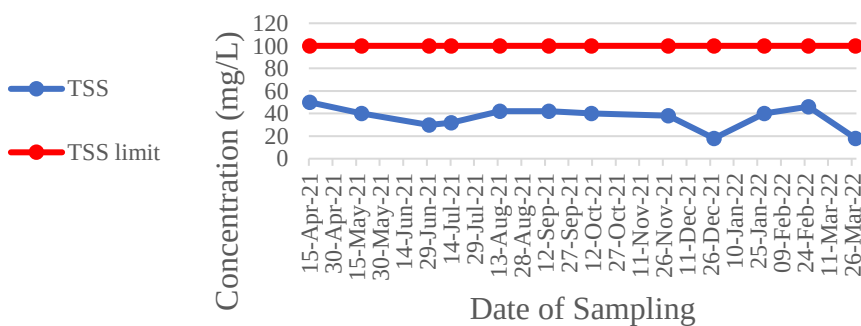
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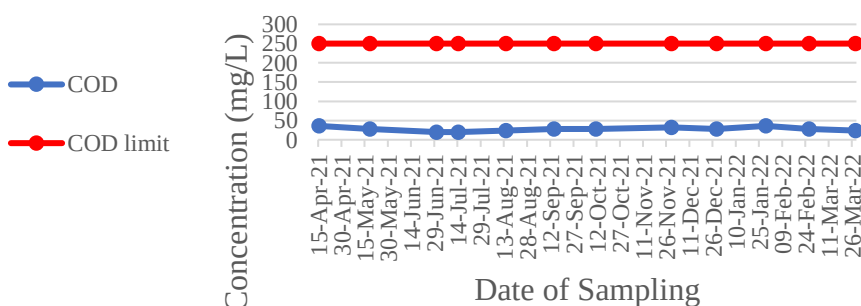
Graph showing for pH of Outlet of O & G Trap



Graph showing for TSS of Outlet of O & G Trap



Graph showing for COD of Outlet of O & G Trap



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Table: :9.41

Area: Hingula

Project: Balram OCP

Monitoring Station: STP Inlet of Balram Colony

All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	TSS	BOD
15-Apr-21	7.07	46	<2.0
14-Jul-21	7.93	48	<2.0
12-Oct-21	7.12	48	<2.0
15-Jan-22	DRY		
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	TSS	BOD
	5.5-9.0	100	30



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Table: :9.42
Area: Hingula
Project: Balram OCP
Monitoring Station: STP Outlet of Balram Colony

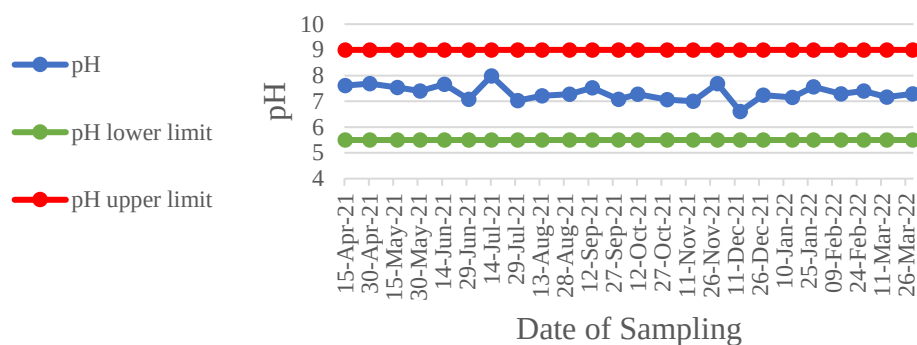
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	TSS	BOD
15-Apr-21	7.61	36	<2.0
30-Apr-21	7.69	30	<2.0
17-May-21	7.54	52	<2.0
31-May-21	7.41	44	<2.0
15-Jun-21	7.67	34	<2.0
30-Jun-21	7.08	34	<2.0
14-Jul-21	7.99	40	<2.0
30-Jul-21	7.03	38	<2.0
14-Aug-21	7.22	38	<2.0
31-Aug-21	7.28	52	<2.0
14-Sep-21	7.53	44	<2.0
30-Sep-21	7.08	28	<2.0
12-Oct-21	7.28	32	<2.0
30-Oct-21	7.07	40	<2.0
15-Nov-21	7.01	22	<2.0
30-Nov-21	7.69	30	<2.0
14-Dec-21	6.61	36	<2.0
28-Dec-21	7.24	24	<2.0
15-Jan-22	7.15	44	<2.0
28-Jan-22	7.57	32	<2.0
14-Feb-22	7.29	38	<2.0
28-Feb-22	7.41	44	<2.0
14-Mar-22	7.17	38	<2.0
30-Mar-22	7.29	34	<2
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	TSS	BOD
	5.5-9.0	100	30

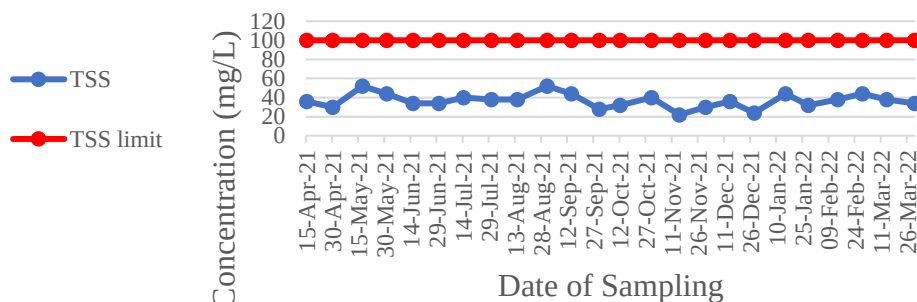
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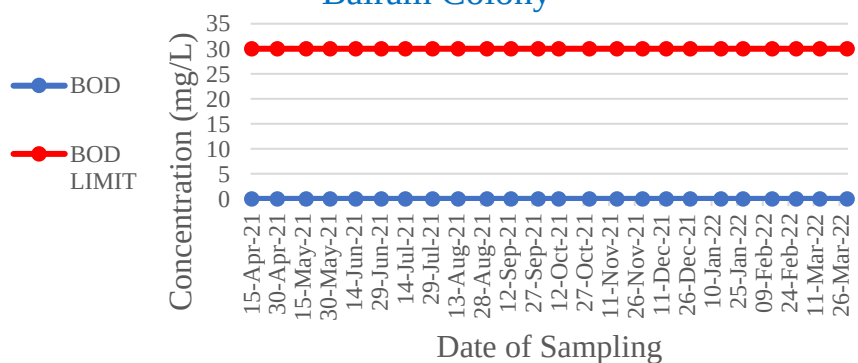
Graph showing for pH of STP Outlet of Balram Colony



Graph showing for TSS of STP Outlet of Balram Colony



Graph showing for BOD of STP Outlet of Balram Colony



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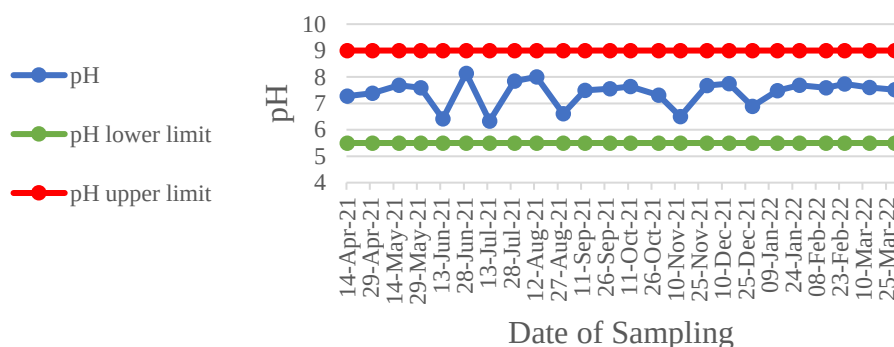
Table: :9.43
Area: Talcher
Project: Talcher Colliery
Monitoring Station: Talcher Colliery Sedimentation Tank Discharge
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Apr-21	7.28	<4.0	26	16
30-Apr-21	7.39	<4.0	38	24
17-May-21	7.69	<4.0	44	32
31-May-21	7.59	<4.0	36	28
14-Jun-21	6.41	<4.0	18	12
29-Jun-21	8.14	<4.0	36	16
14-Jul-21	6.33	<4.0	34	24
30-Jul-21	7.85	<4.0	36	24
13-Aug-21	8	<4.0	26	16
30-Aug-21	6.61	<4.0	20	12
13-Sep-21	7.49	<4.0	40	32
29-Sep-21	7.55	<4.0	40	24
12-Oct-21	7.64	<4.0	46	32
30-Oct-21	7.31	<4.0	40	28
13-Nov-21	6.5	<4.0	36	28
30-Nov-21	7.67	<4.0	38	52
14-Dec-21	7.75	<4.0	20	28
29-Dec-21	6.89	<4.0	26	36
14-Jan-22	7.48	<4.0	18	20
28-Jan-22	7.69	<4.0	28	24
14-Feb-22	7.59	<4.0	44	32
26-Feb-22	7.74	<4.0	52	40
14-Mar-22	7.6	<4.0	18	12
30-Mar-22	7.52	<4.0	26	20
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

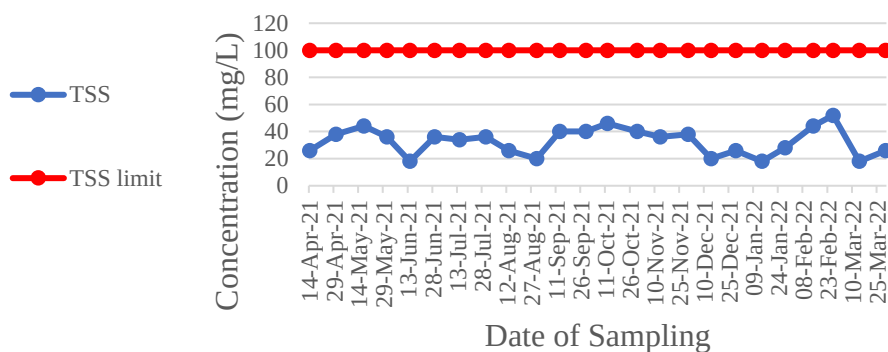
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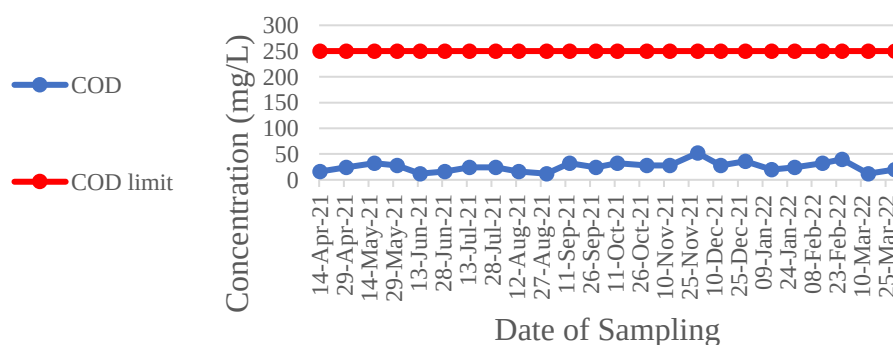
Graph showing for pH of Talcher Colliery
Sedimentation Tank Discharge



Graph showing for TSS of Talcher Colliery
Sedimentation Tank Discharge



Graph showing for COD of Talcher Colliery
Sedimentation Tank Discharge



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Table: :9.44
Area: Talcher
Project: Deulbera Colliery
Monitoring Station: Deulbera Colliery Mine Discharge at Pit Top

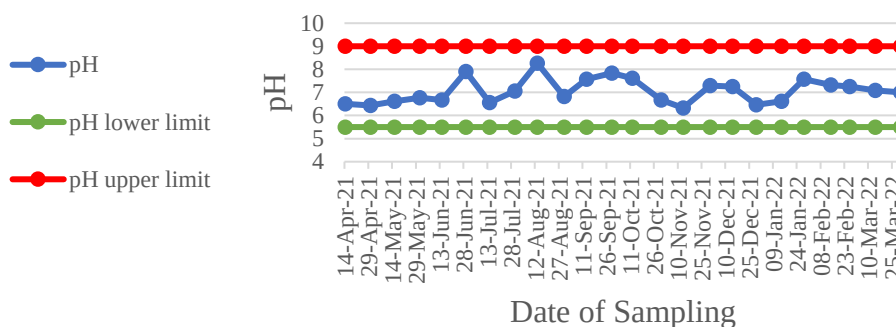
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Apr-21	6.51	<4.0	22	12
30-Apr-21	6.43	<4.0	32	20
15-May-21	6.61	<4.0	48	36
31-May-21	6.77	<4.0	38	28
14-Jun-21	6.67	<4.0	20	12
29-Jun-21	7.91	<4.0	26	16
14-Jul-21	6.56	<4.0	38	28
30-Jul-21	7.06	<4.0	42	28
13-Aug-21	8.27	<4.0	24	16
30-Aug-21	6.82	<4.0	28	16
13-Sep-21	7.57	<4.0	34	24
29-Sep-21	7.84	<4.0	78	68
12-Oct-21	7.62	<4.0	70	56
30-Oct-21	6.67	<4.0	56	48
13-Nov-21	6.33	<4.0	28	20
30-Nov-21	7.3	<4.0	22	20
14-Dec-21	7.26	<4.0	34	48
29-Dec-21	6.47	<4.0	24	48
14-Jan-22	6.62	<4.0	16	28
28-Jan-22	7.57	<4.0	18	12
14-Feb-22	7.32	<4.0	26	16
26-Feb-22	7.26	<4.0	38	20
14-Mar-22	7.09	<4.0	26	32
30-Mar-22	7.01	<4.0	34	28
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

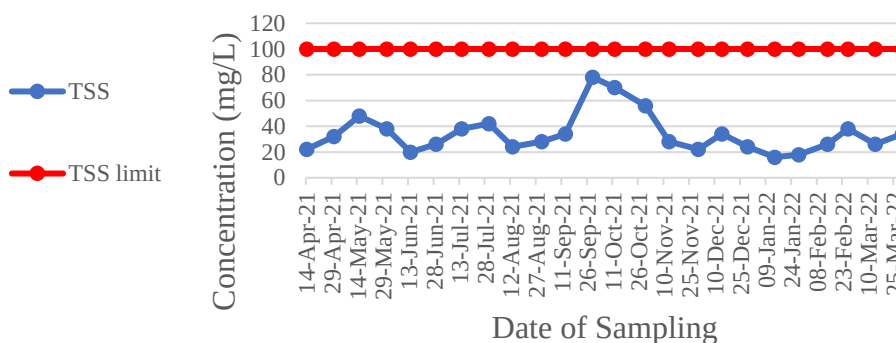
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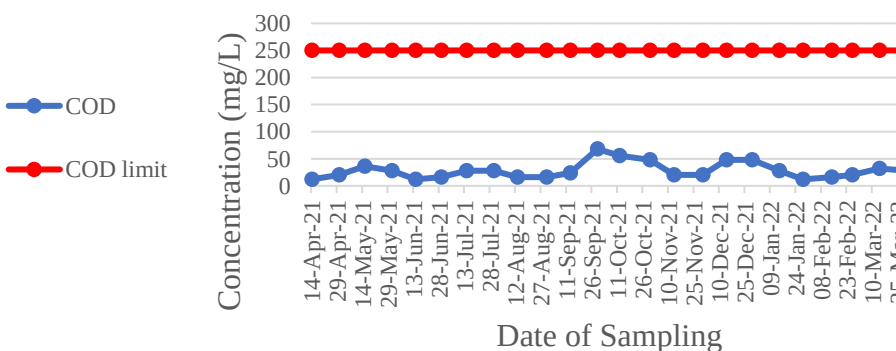
Graph showing for pH of Deulbera Colliery
Mine Discharge at Pit Top



Graph showing for TSS of Deulbera Colliery
Mine Discharge at Pit Top



Graph showing for COD of Deulbera Colliery
Mine Discharge at Pit Top



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Table: :9.45
Area: Talcher
Project: Deulbera Colliery
Monitoring Station: Ranipark Submersible Pump

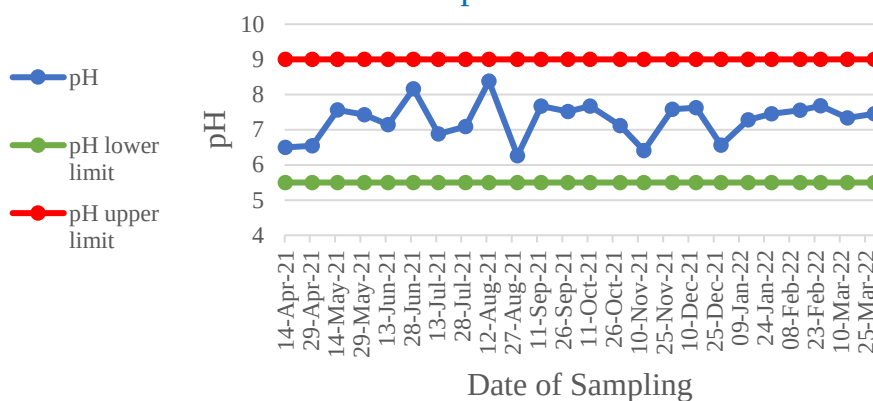
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Apr-21	6.5	<4.0	16	8
30-Apr-21	6.54	<4.0	28	16
15-May-21	7.56	<4.0	40	28
31-May-21	7.43	<4.0	32	20
14-Jun-21	7.14	<4.0	58	32
29-Jun-21	8.16	<4.0	24	16
14-Jul-21	6.88	<4.0	28	20
30-Jul-21	7.09	<4.0	46	32
13-Aug-21	8.38	<4.0	94	72
30-Aug-21	6.26	<4.0	24	12
13-Sep-21	7.67	<4.0	64	48
29-Sep-21	7.52	<4.0	84	76
12-Oct-21	7.67	<4.0	76	68
30-Oct-21	7.12	<4.0	64	52
13-Nov-21	6.41	<4.0	24	16
30-Nov-21	7.58	<4.0	26	28
14-Dec-21	7.63	<4.0	62	36
29-Dec-21	6.56	<4.0	16	8
14-Jan-22	7.28	<4.0	32	20
28-Jan-22	7.45	<4.0	22	8
14-Feb-22	7.55	<4.0	28	24
26-Feb-22	7.68	<4.0	44	28
14-Mar-22	7.34	<4.0	24	20
30-Mar-22	7.45	<4.0	32	16
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

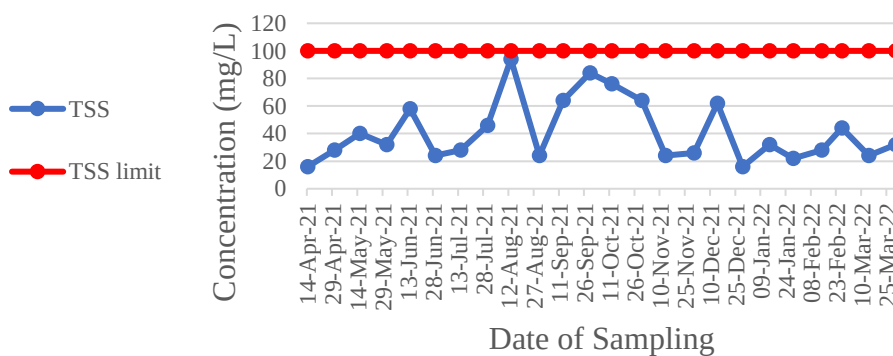
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JOB NO.750001

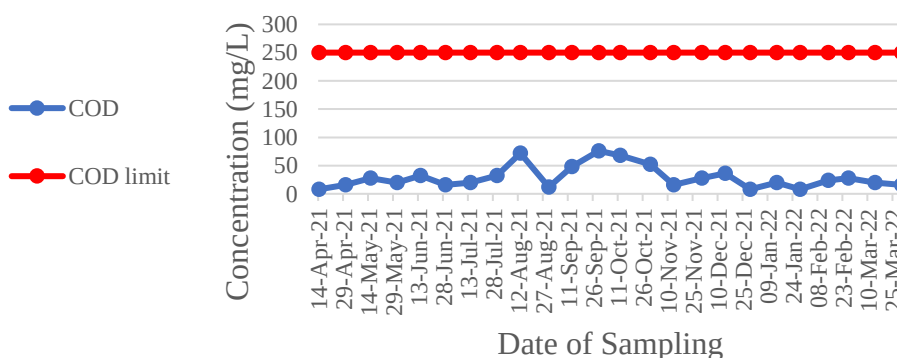
Graph showing for pH of Ranipark Submersible Pump



Graph showing for TSS of Ranipark Submersible Pump



Graph showing for COD of Ranipark Submersible Pump



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Table: :9.46
Area: Talcher
Project: Handidhua Colliery
Monitoring Station: 19X Cut Road Bore Hole Point

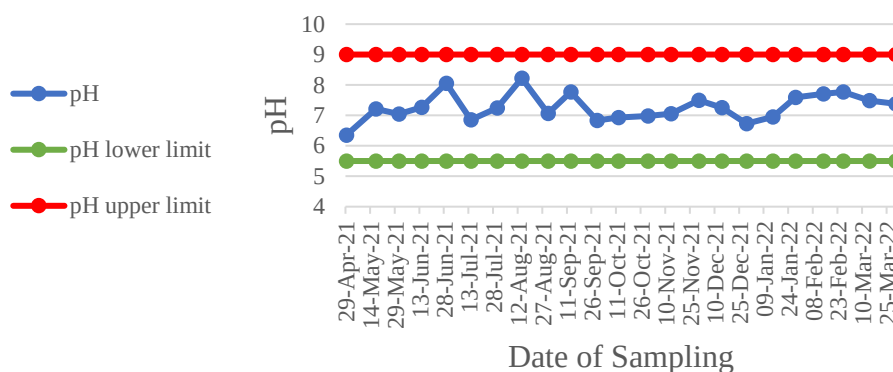
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
29-Apr-21	6.35	<4.0	18	12
17-May-21	7.21	<4.0	28	20
31-May-21	7.04	<4.0	16	12
14-Jun-21	7.27	<4.0	44	28
29-Jun-21	8.06	<4.0	22	12
14-Jul-21	6.85	<4.0	42	32
30-Jul-21	7.24	<4.0	30	16
14-Aug-21	8.22	<4.0	18	12
30-Aug-21	7.07	<4.0	24	16
13-Sep-21	7.77	<4.0	28	20
29-Sep-21	6.83	<4.0	38	24
12-Oct-21	6.93	<4.0	44	32
30-Oct-21	6.98	<4.0	48	40
13-Nov-21	7.06	<4.0	22	16
30-Nov-21	7.5	<4.0	18	16
14-Dec-21	7.25	<4.0	22	24
29-Dec-21	6.73	<4.0	28	60
14-Jan-22	6.95	<4.0	22	28
28-Jan-22	7.59	<4.0	20	24
14-Feb-22	7.71	<4.0	30	24
26-Feb-22	7.77	<4.0	24	36
14-Mar-22	7.49	<4.0	28	36
30-Mar-22	7.38	<4.0	36	32
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

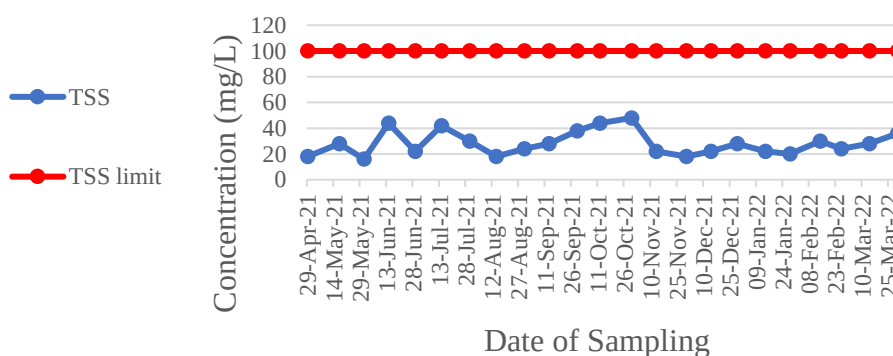
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JOB NO.750001

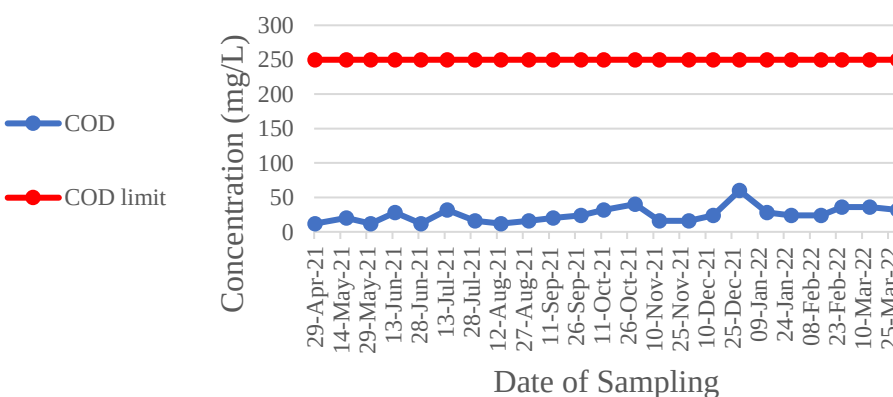
Graph showing for pH of 19X Cut Road Bore
Hole Point



Graph showing for TSS of 19X Cut Road Bore
Hole Point



Graph showing for COD of 19X Cut Road Bore
Hole Point



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Table: :9.47
Area: Talcher
Project: Handidhwa Colliery
Monitoring Station: Handidhwa Colliery Mine Discharge

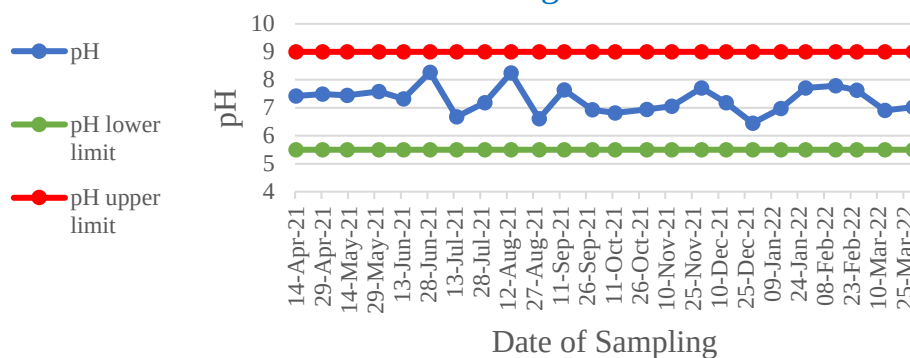
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Apr-21	7.42	<4.0	20	12
29-Apr-21	7.49	<4.0	32	20
13-May-21	7.44	<4.0	56	40
31-May-21	7.58	<4.0	48	28
14-Jun-21	7.32	<4.0	18	12
29-Jun-21	8.27	<4.0	40	24
14-Jul-21	6.68	<4.0	40	20
30-Jul-21	7.18	<4.0	26	16
14-Aug-21	8.24	<4.0	26	16
30-Aug-21	6.61	<4.0	36	20
13-Sep-21	7.64	<4.0	18	12
29-Sep-21	6.93	<4.0	22	16
12-Oct-21	6.81	<4.0	26	24
30-Oct-21	6.94	<4.0	34	28
13-Nov-21	7.05	<4.0	28	24
30-Nov-21	7.71	<4.0	34	40
14-Dec-21	7.18	<4.0	40	52
29-Dec-21	6.45	<4.0	20	16
14-Jan-22	6.98	<4.0	18	32
28-Jan-22	7.71	<4.0	24	12
14-Feb-22	7.79	<4.0	34	36
26-Feb-22	7.63	<4.0	30	28
14-Mar-22	6.91	<4.0	34	32
30-Mar-22	7.02	<4.0	38	40
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

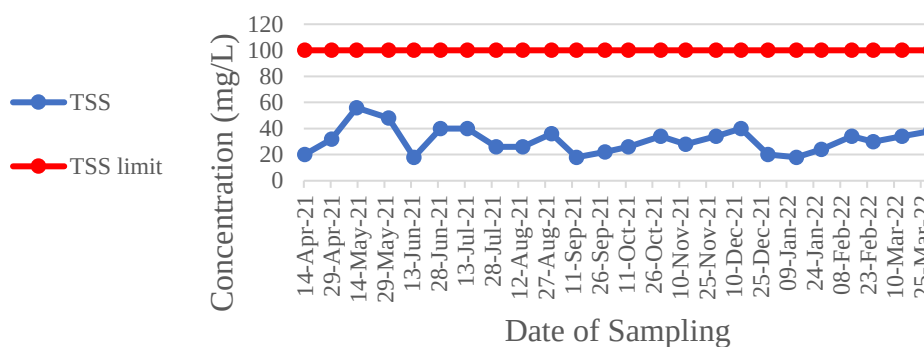
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JOB NO.750001

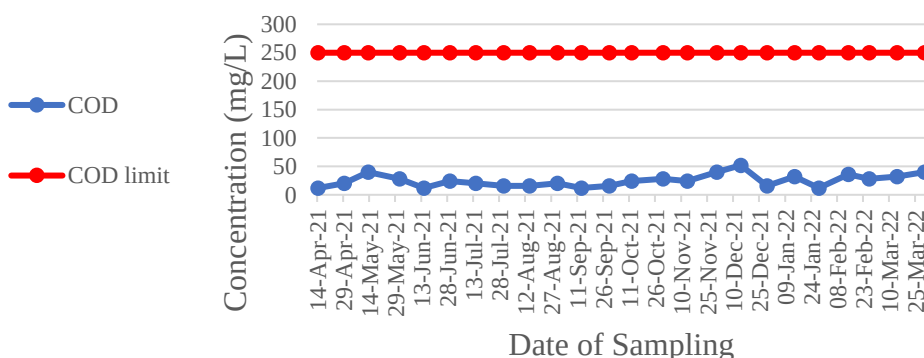
Graph showing for pH of Handhidhua Colliery
Mine Discharge



Graph showing for TSS of Handhidhua Colliery
Mine Discharge



Graph showing for COD of Handhidhua Colliery
Mine Discharge



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Table: :9.48
Area: Talcher
Project: Nandira Colliery
Monitoring Station: Nandira Colliery Sedimentation Tank Discharge

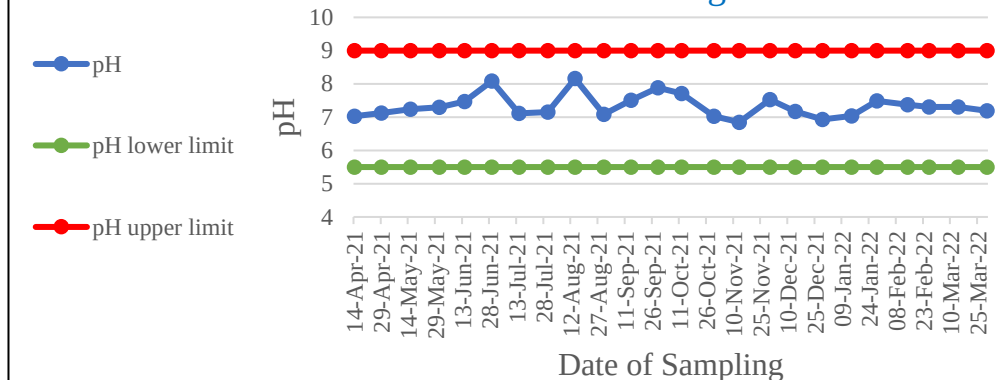
All dimensions are in mg/l unless otherwise stated except pH

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Apr-21	7.03	<4.0	30	28
29-Apr-21	7.12	<4.0	38	32
15-May-21	7.24	<4.0	30	20
31-May-21	7.3	<4.0	24	16
14-Jun-21	7.47	<4.0	24	16
29-Jun-21	8.09	<4.0	32	24
14-Jul-21	7.11	<4.0	32	20
30-Jul-21	7.15	<4.0	26	20
14-Aug-21	8.16	<4.0	18	12
30-Aug-21	7.09	<4.0	46	36
14-Sep-21	7.51	<4.0	32	24
29-Sep-21	7.88	<4.0	46	28
12-Oct-21	7.71	<4.0	54	36
30-Oct-21	7.03	<4.0	58	40
13-Nov-21	6.85	<4.0	32	24
30-Nov-21	7.53	<4.0	18	16
14-Dec-21	7.17	<4.0	26	16
29-Dec-21	6.93	<4.0	20	28
14-Jan-22	7.04	<4.0	22	8
28-Jan-22	7.49	<4.0	32	20
14-Feb-22	7.37	<4.0	28	20
26-Feb-22	7.31	<4.0	36	24
14-Mar-22	7.31	<4.0	22	16
30-Mar-22	7.19	<4.0	30	24
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD
	5.5-9.0	10	100	250

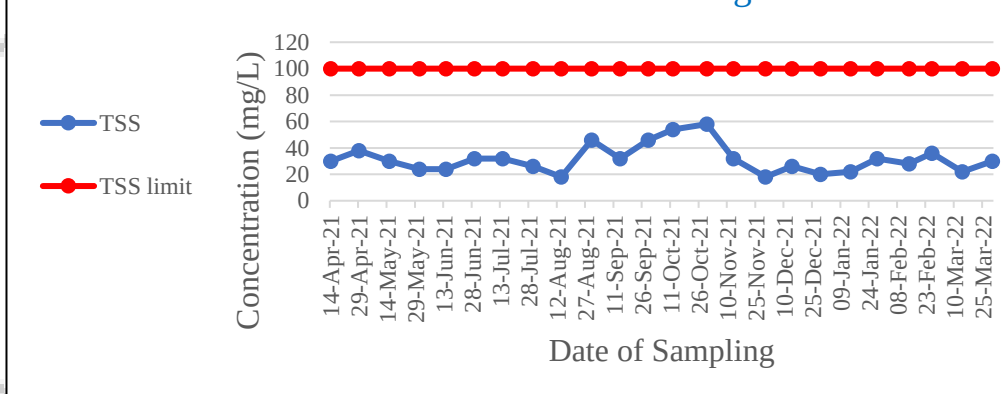
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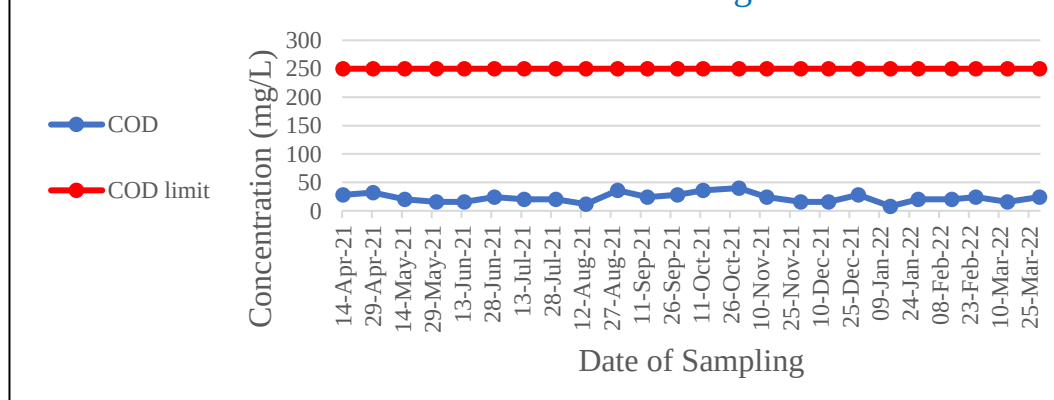
Graph showing for pH of Nandira Colliery
Sedimentation Tank Discharge



Graph showing for TSS of Nandira Colliery
Sedimentation Tank Discharge



Graph showing for COD of Nandira Colliery
Sedimentation Tank Discharge



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TABLES FOR EFFLUENT (22 PARAMETER) QUALITY DATA

Table: 9.49

Area: Jagannath

Project: Jagannath OCP

Project (OCP / UG)	Jagannath		MoEF-Sch-VI Standards
NAME OF THE STATION	O&G Trap Outlet	Near MDTP	
Date of Sampling	30/Nov/2021	30/Nov/2021	
Colour(Hazen)	<1.0	<1.0	—
Odour	Unobjectionable	Unobjectionable	—
Temperature(°C)			Shall not exceed 5°C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	10
Ammonical Nitrogen (mg/L) (As N)	<0.5	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	<1.0	100
BOD [3 days at 27°C] (mg/L)	<2.0	<2.0	30
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.02	<0.02	2
Copper(mg/L)	<0.03	<0.03	3
Zinc(mg/L)	<0.04	<0.04	5
Selenium(mg/L)	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	<0.1	3
Fluoride(mg/L)	<0.3	<0.3	2
Sulphide (mg/L)	<0.1	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	1.0
Manganese(mg/L)	<0.04	<0.04	2
Iron(mg/L)	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4.0	<4.0	5

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Table: 9.50
Area Jagannath
Project: Jagannath OCP

Project (OCP / UG)	Jagannath			MoEF-Sch-VI Standards
NAME OF THE STATION	STP Outlet	West sump	Central sump	
Date of Sampling	30/Nov/2021	30/Nov/2021	30/Nov/2021	
Colour(Hazen)	<1.0	<1.0	<1.0	—
Odour	Unobjectionable	Unobjectionable	Unobjectionable	—
Temperature(°C)				Shall not exceed 5 °C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	<0.5	10
Ammonical Nitrogen (mg/L) (As N)	<0.5	<0.5	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	<1.0	<1.0	100
BOD [3 days at 27°C] (mg/L)	<2.0	<2.0	<2.0	30
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.02	<0.02	<0.02	2
Copper(mg/L)	<0.03	<0.03	<0.03	3
Zinc(mg/L)	<0.04	<0.04	<0.04	5
Selenium(mg/L)	<0.005	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	<0.1	<0.1	3
Fluoride(mg/L)	<0.3	<0.3	<0.3	2
Sulphide (mg/L)	<0.1	<0.1	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	<0.001	1.0
Manganese(mg/L)	<0.04	<0.04	<0.04	2
Iron(mg/L)	<0.1	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4.0	<4.0	<4.0	5

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Table: 9.51

Area: Jagannath OCP

Project: Ananta

Project (OCP / UG)	Ananta	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine sump Water	
Date of Sampling	29/Nov/2021	
Colour(Hazen)	<1.0	—
Odour	Unobjectionable	—
Temperature(^o C)		Shall not exceed 5 ^o C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen (mg/L) (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27 ^o C] (mg/L)	<2.0	30
Arsenic(mg/L)	<0.005	0.2
Lead(mg/L)	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.02	2
Copper(mg/L)	<0.03	3
Zinc(mg/L)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	<0.3	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	<0.04	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4.0	5

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Table: 9.52

Area: Bharatpur

Project: Bharatpur

Project (OCP / UG)	Bharatpur	MoEF-Sch-VI Standards
NAME OF THE STATION	Sum Water Near Regional Store Bharatpur OCP	
Date	30-Mar-22	
Colour(Hazen)	2	—
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	1.95	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.56	100
BOD [3 days at 27°C] (mg/L)	<2.0	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.02	2
Copper(mg/L)	<0.03	3
Zinc(mg/L)	<0.04	5
Selenium,mg/l		
Cadmium, mg/l	<0.001	2
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.62	2
Sulphide (mg/L)	<0.1	2
Manganese(mg/L)	<0.04	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<1.0	5

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Table: 9.53

Area: Bharatpur**Project:** Bharatpur OCP

Project (OCP / UG)	Bharatpur	MoEF-Sch-VI Standards
NAME OF THE STATION	Sum Water Near Regional Store Bharatpur OCP	
Date	1-Sep-21	
Colour(Hazen)	2	—
Temperature(^oC)		Shall not exceed 5 ^oC above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	1.95	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.56	100
BOD [3 days at 27^oC] (mg/L)	<2.0	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.02	2
Copper(mg/L)	<0.03	3
Zinc(mg/L)	<0.04	5
Cadmium, mg/l	<0.001	2
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.62	2
Sulphide (mg/L)	<0.1	2
Manganese(mg/L)	<0.04	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<1.0	5

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Table: 9.54

Area: Bharatpur

Project: Bharatpur OCP

Project (OCP / UG)	Bharatpur		MoEF-Sch-VI Standards
NAME OF THE STATION	Workshop ETP Clear Water Tank Outlet	STP Outlet	
Date of Sampling	30/Nov/2021	30/Nov/2021	
Colour(Hazen)	<1.0	<1.0	—
Odour	Unobjectionable	Unobjectionable	—
Temperature(^o C)	<0.5	0.87	Shall not exceed 5 ^o C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	10
Ammonical Nitrogen (mg/L) (As N)	<0.5	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	<2.0	30
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.02	<0.02	2
Copper(mg/L)	<0.03	<0.03	3
Zinc(mg/L)	<0.04	<0.04	5
Selenium(mg/L)	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	<0.1	3
Fluoride(mg/L)	<0.3	<0.3	2
Sulphide (mg/L)	<0.1	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	1.0
Manganese(mg/L)	<0.04	<0.04	2
Iron(mg/L)	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4.0	<4.0	5

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Table: 9.55

Area: Bharatpur

Project: Bharatpur OCP

Project (OCP / UG)	Bharatpur		MoEF-Sch-VI Standards
NAME OF THE STATION	Water Loading Point at South Quarry Sump	Mine sump water Old quarry sump	
Date of Sampling	30/Nov/2021	30/Nov/2021	
Colour(Hazen)	<1.0	<1.0	—
Odour	Unobjectionable	Unobjectionable	—
Temperature(°C)	<0.5		Shall not exceed 5 °C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	10
Ammonical Nitrogen (mg/L) (As N)	<0.5	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	<1.0	100
BOD [3 days at 27°C] (mg/L)	<2.0	<2.0	30
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	<0.005	0.1
Total Chromium(mg/L)	<0.02	<0.02	2
Copper(mg/L)	<0.03	<0.03	3
Zinc(mg/L)	<0.04	<0.04	5
Selenium(mg/L)	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	<0.1	3
Fluoride(mg/L)	<0.3	<0.3	2
Sulphide (mg/L)	<0.1	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	1.0
Manganese(mg/L)	<0.04	<0.04	2
Iron(mg/L)	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4.0	<4.0	5

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Table: 9.56

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj	Lingaraj	MoEF-Sch-VI Standards
NAME OF THE STATION	Inlet of Sedimentation Pond Complex near Deulbera Siding	Clear Water Tank of Sedimentation Pond Complex Near Deulbera	
Date of Sampling	30-Mar-2022	30-Mar-22	
Colour(Hazen)	4	3	—
Nitrate Nitrogen(mg/L)(As N)	3.70	3.54	10
Ammonical Nitrogen , mg/l (As N)	1.88	0.97	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.41	2.27	100
BOD [3 days at 27°C] (mg/L)	2.4	2.2	30
Arsenic, mg/l	<0.005	<0.005	0.2
Lead, mg/l	<0.005	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.005	<0.005	2
Copper(mg/L)	<0.04	<0.04	3
Zinc(mg/L)	0.11	<0.04	5
Selenium,mg/l	<0.005	<0.005	0.05
Cadmium, mg/l	<0.001	<0.001	2
Nickel(mg/L)	<0.1	<0.1	3
Fluoride(mg/L)	0.83	0.77	2
Sulphide (mg/L)	<0.1	<0.1	2
Manganese(mg/L)	<0.07	<0.07	2
Iron(mg/L)	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4.0	<4.0	5

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Table: 9.57

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj			MoEF-Sch-VI Standards
NAME OF THE STATION	Inlet of Workshop ETP	Clear Water Reservoir of Workshop ETP	Mine Sump Water	
Date	18-05-21	18-05-21	31-05-21	
Colour(Hazen)	2	1	1	–
Temperature(^o C)				Shall not exceed 5 ^o C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.67	0.91	0.82	50
Total Kjeldhal Nitrogen, mg/l (As N)	2.02	1.89	1.96	100
BOD [3 days at 27 ^o C] (mg/L)	<2.0	<2.0	<2.0	30
Arsenic, mg/l	<0.005	<0.005	<0.005	0.2
Lead, mg/l	<0.005	<0.005	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.02	<0.02	<0.02	2
Copper(mg/L)	<0.03	<0.03	<0.03	3
Zinc(mg/L)	<0.04	<0.04	<0.04	5
Cadmium, mg/l	<0.001	<0.001	<0.001	2
Nickel(mg/L)	<0.1	<0.1	<0.1	3
Fluoride(mg/L)	<0.30	<0.30	<0.30	2
Sulphide (mg/L)	<0.1	<0.1	<0.1	2
Manganese(mg/L)	<0.04	<0.04	<0.04	2
Iron(mg/L)	<0.1	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<1.0	<1.0	<1.0	5

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Table: 9.58

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj	Lingaraj	MoEF-Sch-VI Standards
NAME OF THE STATION	Inlet of MDTP Near Stock No. 17	Clear Water Tank of MDTP Near Stock No. 17	
Date	1-Sep-2021	1-Sep-21	
Colour(Hazen)	1	1	—
Temperature(^o C)			Shall not exceed 5 ^o C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	1.54	1.54	10
Ammonical Nitrogen , mg/l (As N)	1.02	1.25	50
Total Kjeldhal Nitrogen, mg/l (As N)	2.89	2.95	100
BOD [3 days at 27 ^o C] (mg/L)	<2.0	<2.0	30
Arsenic, mg/l	<0.005	<0.005	0.2
Lead, mg/l	<0.005	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.02	<0.02	2
Copper(mg/L)	<0.03	<0.03	3
Zinc(mg/L)	<0.04	<0.04	5
Cadmium, mg/l	<0.001	<0.001	2
Nickel(mg/L)	<0.1	<0.1	3
Fluoride(mg/L)	0.52	0.56	2
Sulphide (mg/L)	<0.1	<0.1	2
Manganese(mg/L)	<0.04	<0.04	2
Iron(mg/L)	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<1.0	<1.0	5

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Table: 9.59

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj				MoEF-Sch-VI Standards
NAME OF THE STATION	Inlet of Sedimentation Pond Complex Near Lingraj Siding	Clear Water Tank of Sedimentation Pond Complex Near Lingraj Siding	Inlet of Sedimentation Pond Complex Near Project Office	Clear Water Reservoir of Sedimentation Pond Complex Near Project Office	
Date of Sampling	30/Nov/2021	30/Nov/2021	30/Nov/2021	30/Nov/2021	
Colour(Hazen)	<1.0	<1.0	<1.0	<1.0	—
Odour	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	—
Temperature(^o C)	<0.5	4.61	4.48	<0.50	Shall not exceed 5 ^o C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	<0.5	<0.5	10
Ammonical Nitrogen (mg/L) (As N)	<0.5	<0.5	<0.5	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	<1.0	<1.0	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	<2.0	<2.0	<2.0	30
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	<0.05	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.02	<0.02	<0.02	<0.02	2
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	3
Zinc(mg/L)	<0.04	<0.04	<0.04	<0.04	5
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	<0.1	<0.1	<0.1	3
Fluoride(mg/L)	<0.3	<0.3	<0.3	<0.3	2
Sulphide (mg/L)	<0.1	<0.1	<0.1	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	<0.001	<0.001	1.0
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	2
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4.0	<4.0	<4.0	<4.0	5

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Table: 9.60

Area: Kaniha

Project: Kaniha OCP

Project (OCP / UG)	Kaniha	MoEF-Sch-VI Standards
NAME OF THE STATION	Clear Water Pond Outlet	
Date of Sampling	29/Nov/2021	
Colour(Hazen)	<1.0	–
Odour	Unobjectionable	–
Temperature(^o C)		Shall not exceed 5 ^o C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen (mg/L) (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27 ^o C] (mg/L)	<2.0	30
Arsenic(mg/L)	<0.005	0.2
Lead(mg/L)	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.02	2
Copper(mg/L)	<0.03	3
Zinc(mg/L)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	<0.3	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	<0.04	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4.0	5

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Table: 9.61

Area: Hingula

Project: Hingula OCP

Project (OCP / UG)	Hingula	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine sump Water	
Date of Sampling	29/Nov/2021	
Colour(Hazen)	<1.0	–
Odour	Unobjectionable	–
Temperature(°C)		Shall not exceed 5 °C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen (mg/L) (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27°C] (mg/L)	<2.0	30
Arsenic(mg/L)	<0.005	0.2
Lead(mg/L)	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.02	2
Copper(mg/L)	<0.03	3
Zinc(mg/L)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	<0.3	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	<0.04	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4.0	5

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Table: 9.62

Area: Hingula

Project: Balaram.OCP

Project (OCP / UG)	Balaram	
NAME OF THE STATION	Mine sump Water	MoEF-Sch-VI Standards
Date of Sampling	29/Nov/2021	
Colour(Hazen)	<1.0	–
Odour	Unobjectionable	–
Temperature(°C)		Shall not exceed 5 °C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen (mg/L) (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27°C] (mg/L)	<2.0	30
Arsenic(mg/L)	<0.005	0.2
Lead(mg/L)	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.02	2
Copper(mg/L)	<0.03	3
Zinc(mg/L)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	<0.3	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	<0.04	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4.0	5

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Table: 9.63

Area: Talcher

Project: Talcher

Project (OCP / UG)	Talcher Colliery	MoEF-Sch-VI Standards
NAME OF THE STATION	Talcher Colliery Sedimentation Tank Discharge	
Date of Sampling	30/Nov/2021	
Colour(Hazen)	<1.0	—
Odour	Unobjectionable	—
Temperature(^o C)	<0.50	Shall not exceed 5 ^o C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen (mg/L) (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27 ^o C] (mg/L)	<2.0	30
Arsenic(mg/L)	<0.005	0.2
Lead(mg/L)	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.02	2
Copper(mg/L)	<0.03	3
Zinc(mg/L)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	<0.3	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	<0.04	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4.0	5

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Table: 9.64

Area: Talcher

Project: Nandira Colliery

Project (OCP / UG)	Nandira Colliery	MoEF-Sch-VI Standards
NAME OF THE STATION	Nandira Colliery Sedimentation Tank Discharge	
Date of Sampling	30/Nov/2021	
Colour(Hazen)	<1.0	–
Odour	Unobjectionable	–
Temperature(^o C)	<0.50	Shall not exceed 5 ^o C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen (mg/L) (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27 ^o C] (mg/L)	<2.0	30
Arsenic(mg/L)	<0.005	0.2
Lead(mg/L)	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.02	2
Copper(mg/L)	<0.03	3
Zinc(mg/L)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	<0.3	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	<0.04	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4.0	5

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Table: 9.65

Area: Talcher

Project: Deulbera Colliery

Project (OCP / UG)	Deulbera Colliery		MoEF-Sch-VI Standards
NAME OF THE STATION	Deulbera Colliery Mine Discharge at Pit Top	Rani Park Submersible Pump	
Date of Sampling	30/Nov/2021	30/Nov/2021	
Colour(Hazen)	<1.0	<1.0	—
Odour	Unobjectionable	Unobjectionable	—
Temperature(°C)	1.29	0.64	Shall not exceed 5 °C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	10
Ammonical Nitrogen (mg/L) (As N)	<0.5	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	<1.0	100
BOD [3 days at 27°C] (mg/L)	<2.0	<2.0	30
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.02	<0.02	2
Copper(mg/L)	<0.03	<0.03	3
Zinc(mg/L)	<0.04	<0.04	5
Selenium(mg/L)	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	<0.1	3
Fluoride(mg/L)	<0.3	<0.3	2
Sulphide (mg/L)	<0.1	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	1.0
Manganese(mg/L)	<0.04	<0.04	2
Iron(mg/L)	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4.0	<4.0	5

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Table: 9.66

Area: Talcher

Project: Handhidhua Colliery

Project (OCP / UG)	Handhidhua Colliery		MoEF-Sch-VI Standards
NAME OF THE STATION	Handhidhua Colliery Mine Discharge	19X Cut Road bore hole point	
Date of Sampling	30/Nov/2021	30/Nov/2021	
Colour(Hazen)	<1.0	<1.0	—
Odour	Unobjectionable	Unobjectionable	—
Temperature(^o C)	3.01		Shall not exceed 5 ^o C above the receiving temperature
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	10
Ammonical Nitrogen (mg/L) (As N)	<0.5	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	<2.0	30
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.02	<0.02	2
Copper(mg/L)	<0.03	<0.03	3
Zinc(mg/L)	<0.02	<0.04	5
Selenium(mg/L)	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	<0.1	3
Fluoride(mg/L)	<0.3	<0.3	2
Sulphide (mg/L)	<0.1	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	1.0
Manganese(mg/L)	<0.04	<0.04	2
Iron(mg/L)	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4.0	<4.0	5

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SURFACE WATER QUALITY

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TABLE NO 10 FOR SURFACEWATER QUALITY DATA

Table:10.1

Area: Jagannath

Project: Jagannath OCP

Project/OCP	Jagannath		IS:2296-1982
NAME OF STATIONS	Upstream of Bangaru Jhor Nallah	Downstream of Banagaru Jhor Nallah	Tolerance for inland Surface water (Class C)
Date of sampling	30-Aug-2021	30-Aug-2021	
pH	7.46	7.63	6.5-8.5
Dissolved Oxygen(mg/L)	6.8	7.0	4
BOD (3 days 27°C)(mg/L)	<2.0	<2.0	3
Color (Hazen unit)	1	2	300
Total dissolved solids (mg/L)	684	688	1500
TSS(mg/L)	44	50	-
Total Hardness(mg/L)	432	440	-
Copper(mg/L)	<0.03	<0.03	1.5
Iron(mg/L)	<0.1	<0.1	50
Chlorides(mg/L)	31.55	29.57	600
Sulphate(mg/L)	180.43	176.43	400
Nitrate(mg/L)	5.92	5.97	50
Fluoride(mg/L)	0.64	0.68	1.5
Cadmium(mg/L)	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	15
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.01	0.05
Oil & Grease (mg/L)	<4.0	<4.0	0.1
MPN (Index/100 ml)	14	11	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	0.2

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Table:10.2
Area: Bharatpur
Project: Bharatpur OCP

Project/OCP	Bharatpur		IS:2296-1982
NAME OF STATIONS	Bangaru Jhor River Near Joragarhia as Downstream Water Point of Bharatpur OCP	Jambubahali Village Pond	Tolerance for inland Surface water (Class C)
Date of sampling	30-Aug-2021	30-Aug-2021	
pH	7.66	7.20	6.5-8.5
Dissolved Oxygen(mg/L)	6.9	6.8	4
BOD (3 days 27°C(mg/L)	<2.0	<2.0	3
Color (Hazen unit)	1	2	300
Total dissolved solids (mg/L)	630	220	1500
TSS(mg/L)	34	54	-
Total Hardness(mg/L)	404	124	-
Copper(mg/L)	<0.03	<0.03	1.5
Iron(mg/L)	<0.1	<0.1	50
Chlorides(mg/L)	27.6	11.83	600
Sulphate(mg/L)	167.15	31.14	400
Nitrate(mg/L)	3.39	<0.50	50
Fluoride(mg/L)	0.56	0.32	1.5
Cadmium(mg/L)	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	15
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.01	0.05
Oil & Grease (mg/L)	<4.0	<4.0	0.1
MPN (Index/100 ml)	12	22	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	0.2

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Table: 10.3
Area: Kaniha
Project: Kaniha OCP

Project/OCP		Kaniha		IS:2296-1982
NAME OF STATIONS	Singada Jhor Stream Nearer to Village Khairnali as u/s Water for Kaniha OCP	Before Junction Point of Singadajhor & Brahmani River at Balangi Village as d/s for Kaniha OCP		Tolerance for inland Surface water (Class C)
Date of sampling	28-Aug-2021	28-Aug-2021		
pH	7.87	7.47		6.5-8.5
Dissolved Oxygen(mg/L)	6.7	6.9		4
BOD (3 days 27°c(mg/L)	<2.0	<2.0		3
Color (Hazen unit)	2	1		300
Total dissolved solids (mg/L)	258	248		1500
TSS(mg/L)	48	56		-
Total Hardness(mg/L)	152	136		-
Copper(mg/L)	<0.03	<0.03		1.5
Iron(mg/L)	<0.1	<0.1		50
Chlorides(mg/L)	15.77	13.8		600
Sulphate(mg/L)	27.57	30.43		400
Nitrate(mg/L)	<0.5	<0.5		50
Fluoride(mg/L)	0.42	0.38		1.5
Cadmium(mg/L)	<0.001	<0.001		0.01
Arsenic(mg/L)	<0.005	<0.005		0.2
Lead(mg/L)	<0.005	<0.005		0.1
Zinc(mg/L)	<0.04	<0.04		15
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.01		0.05
Oil & Grease (mg/L)	<4.0	<4.0		0.1
MPN (Index/100 ml)	6	4		-
Residual Free Chlorine(mg/L)	<0.2	<0.2		0.2

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Table: 10.4
Area: Kaniha
Project: Kaniha OCP

Project/OCP		Kaniha		IS:2296-1982 Tolerance for inland Surface water (Class C)
NAME OF STATIONS	Tikra Nadi Near Kaniah Village as u/s Water for Kaniah OCP	Tikra Nadi Near Shagarhi Pala Village as d/s Water for Kaniah OCP		
Date of sampling	28-Aug-2021	28-Aug-2021		
pH	7.37	7.39	6.5-8.5	
Dissolved Oxygen(mg/L)	7.1	7.2	4	
BOD (3 days 27°c(mg/L)	<2.0	<2.0	3	
Color (Hazen unit)	1	2	300	
Total dissolved solids (mg/L)	224	146	1500	
TSS(mg/L)	88	116	-	
Total Hardness(mg/L)	132	80	-	
Copper(mg/L)	<0.03	<0.03	1.5	
Iron(mg/L)	<0.1	<0.1	50	
Chlorides(mg/L)	11.83	7.89	600	
Sulphate(mg/L)	42.57	13.29	400	
Nitrate(mg/L)	<0.5	<0.5	50	
Fluoride(mg/L)	0.33	<0.30	1.5	
Cadmium(mg/L)	<0.001	<0.001	0.01	
Arsenic(mg/L)	<0.005	<0.005	0.2	
Lead(mg/L)	<0.005	<0.005	0.1	
Zinc(mg/L)	<0.04	<0.04	15	
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.01	0.05	
Oil & Grease (mg/L)	<4.0	<4.0	0.1	
MPN (Index/100 ml)	4	2		
Residual Free Chlorine(mg/L)	<0.2	<0.2	0.2	

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Table: 10.5
Area: Kaniha
Project: Kaniha OCP

Project/OCP		Kaniha			IS:2296-1982 Tolerance for inland Surface water (Class C)
NAME OF STATIONS	Singada Jhor Stream Nearer to Village Khairnali as u/s Water for Kaniha OCP	Before Junction Point of Singadajhor & Brahmani River at Balangi Village as d/s for Kaniha OCP	Tikra Nadi Near Kaniah Village as u/s Water for Kaniah OCP	Tikra Nadi Near Shagarhi Pala Village as d/s Water for Kaniah OCP	
Date of sampling	31-Jan-2022	31-Jan-2022	31-Jan-2022	31-Jan-2022	
pH	7.89	7.85	7.86	7.64	6.5-8.5
Dissolved Oxygen(mg/L)	6.5	6.7	6.4	6.2	4
BOD (3 days 27°c(mg/L)	2.3	2.4	2.2	2.3	3
Color (Hazen unit)	2	4	3	1	300
Total dissolved solids (mg/L)	254	188	246	136	1500
TSS(mg/L)	34	46	40	64	-
Total Hardness(mg/L)	236	144	288	24	-
Copper(mg/L)	<0.04	<0.04	<0.04	<0.04	1.5
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	50
Chlorides(mg/L)	20	14	20	12	600
Sulphate(mg/L)	68	66.29	64.57	36.14	400
Nitrate(mg/L)	<0.5	1.68	<0.5	1.0	50
Fluoride(mg/L)	0.46	0.39	0.54	0.32	1.5
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	<0.04	<0.04	15
Chromium(as Cr⁶)(mg/L)	<0.05	<0.05	<0.05	<0.05	0.05
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0	0.1
MPN (Index/100 ml)	5.5	4	4	2	-
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01

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Table: 10.6
Area: Hingula
Project: Hingula

Project/OCF	Hingula		IS:2296-1982
NAME OF STATIONS	Singadhajhor Stream Near HOCP	Pond Water of Kankarei Village	Tolerance for inland Surface water (Class C)
Date of sampling	28-Aug-2021	30-Aug-2021	
pH	7.70	7.63	6.5-8.5
Dissolved Oxygen(mg/L)	6.9	6.6	4
BOD (3 days 27°C)(mg/L)	<2.0	<2.0	3
Color (Hazen unit)	2	1	300
Total dissolved solids (mg/L)	244	140	1500
TSS(mg/L)	62	48	-
Total Hardness(mg/L)	136	88	-
Copper(mg/L)	<0.03	<0.03	1.5
Iron(mg/L)	<0.1	<0.1	50
Chlorides(mg/L)	15.77	9.86	600
Sulphate(mg/L)	37.71	18.43	400
Nitrate(mg/L)	1.37	<0.5	50
Fluoride(mg/L)	0.39	0.30	1.5
Cadmium(mg/L)	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	15
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.01	0.05
Oil & Grease (mg/L)	<4.0	<4.0	0.1
MPN (Index/100 ml)	11	14	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	0.2

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Table: 10.7
Area: Hingula
Project: Hingula

Project/OCP		Hingula		IS:2296-1982 Tolerance for inland Surface water (Class C)
NAME OF STATIONS	Singadhajhor Stream Near HOCF	Pond Water of Kankarei Village		
Date of sampling	31-Jan-2022	31-Jan-2022		
pH	7.77	7.89	6.5-8.5	
Dissolved Oxygen(mg/L)	6.4	6.6	4	
BOD (3 days 27°c(mg/L)	2.6	2.4	3	
Color (Hazen unit)	3	2	300	
Total dissolved solids (mg/L)	288	158	1500	
TSS(mg/L)	36	22	-	
Total Hardness(mg/L)	220	156	-	
Copper(mg/L)	<0.04	<0.04	1.5	
Iron(mg/L)	<0.1	<0.1	50	
Chlorides(mg/L)	18	8	600	
Sulphate(mg/L)	131.4	39.43	400	
Nitrate(mg/L)	0.63	<0.5	50	
Fluoride(mg/L)	0.58	0.34	1.5	
Cadmium(mg/L)	<0.001	<0.001	0.01	
Arsenic(mg/L)	<0.005	<0.005	0.2	
Lead(mg/L)	<0.005	<0.005	0.1	
Zinc(mg/L)	<0.04	<0.04	15	
Chromium(as Cr ⁶)(mg/L)	<0.05	<0.05	0.05	
Oil & Grease (mg/L)	<4.0	<4.0	0.1	
MPN (Index/100 ml)	11	13	–	
Selenium(mg/L)	<0.005	<0.005	0.01	

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Table: 10.8
Area: Hingula
Project: Balram

Project/OCP	Balram		IS:2296-1982
NAME OF STATIONS	Derjenga Reservoir as a Part of Impact Study	Pond Water of Ambapal Village	Tolerance for inland Surface water (Class C)
Date of sampling	30-Aug-2021	28-Aug-2021	
pH	7.54	7.33	6.5-8.5
Dissolved Oxygen(mg/L)	6.8	6.6	4
BOD (3 days 27°C)(mg/L)	<2.0	<2.0	3
Color (Hazen unit)	2	1	300
Total dissolved solids (mg/L)	246	316	1500
TSS(mg/L)	94	60	-
Total Hardness(mg/L)	128	76	-
Copper(mg/L)	<0.03	<0.03	1.5
Iron(mg/L)	<0.1	<0.1	50
Chlorides(mg/L)	13.8	65.06	600
Sulphate(mg/L)	15.86	20.86	400
Nitrate(mg/L)	1.87	5.85	50
Fluoride(mg/L)	0.42	0.54	1.5
Cadmium(mg/L)	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	15
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.01	0.05
Oil & Grease (mg/L)	<4.0	<4.0	0.1
MPN (Index/100 ml)	12	17	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	0.2

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Table: 10.9
Area: Hingula
Project: Balram

Project/OCP	Balram		IS:2296-1982
NAME OF STATIONS	Derjenga Reservoir as a Part of Impact Study	Pond Water of Ambapal Village	Tolerance for inland Surface water (Class C)
Date of sampling	31-Jan-2022	31-Jan-2022	
pH	7.73	7.07	6.5-8.5
Dissolved Oxygen(mg/L)	6.3	6.1	4
BOD (3 days 27°C(mg/L)	2.4	<2.0	3
Color (Hazen unit)	2	1	300
Total dissolved solids (mg/L)	180	184	1500
TSS(mg/L)	30	44	-
Total Hardness(mg/L)	144	76	-
Copper(mg/L)	<0.04	<0.04	1.5
Iron(mg/L)	<0.1	<0.1	50
Chlorides(mg/L)	12	39	600
Sulphate(mg/L)	19.86	24.43	400
Nitrate(mg/L)	1.0	1.69	50
Fluoride(mg/L)	0.39	0.41	1.5
Cadmium(mg/L)	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	15
Chromium(as Cr ⁶)(mg/L)	<0.05	<0.05	0.05
Oil & Grease (mg/L)	<4.0	<4.0	0.1
MPN (Index/100 ml)	12	14	—
Selenium(mg/L)	<0.005	<0.005	0.01

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Table: 10.10
Area: Talcher
Project: Talcher

Project/OCF	Talcher	IS:2296-1982
NAME OF STATIONS	Pond Water of Dera Village	Tolerance for inland Surface water (Class C)
Date of sampling	28-Aug-2021	
pH	7.18	6.5-8.5
Dissolved Oxygen(mg/L)	7.0	4
BOD (3 days 27°C)(mg/L)	<2.0	3
Color (Hazen unit)	2	300
Total dissolved solids (mg/L)	278	1500
TSS(mg/L)	42	-
Total Hardness(mg/L)	100	-
Copper(mg/L)	<0.03	1.5
Iron(mg/L)	<0.1	50
Chlorides(mg/L)	37.46	600
Sulphate(mg/L)	29.43	400
Nitrate(mg/L)	<0.5	50
Fluoride(mg/L)	0.44	1.5
Cadmium(mg/L)	<0.001	0.01
Arsenic(mg/L)	<0.005	0.2
Lead(mg/L)	<0.005	0.1
Zinc(mg/L)	<0.04	15
Chromium(as Cr ⁶)(mg/L)	<0.01	0.05
Oil & Grease (mg/L)	<4.0	0.1
MPN (Index/100 ml)	11	-
Residual Free Chlorine(mg/L)	<0.2	0.2

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Table: 10.11
Area: Talcher
Project: Talcher

Project/OCP	Talcher	IS:2296-1982
NAME OF STATIONS	Pond Water of Dera Village	Tolerance for inland Surface water (Class C)
Date of sampling	29-Jan-2022	
pH	6.99	6.5-8.5
Dissolved Oxygen(mg/L)	6.2	4
BOD (3 days 27°C(mg/L)	2.4	3
Color (Hazen unit)	3	300
Total dissolved solids (mg/L)	156	1500
TSS(mg/L)	48	-
Total Hardness(mg/L)	76	-
Copper(mg/L)	<0.04	1.5
Iron(mg/L)	<0.1	50
Chlorides(mg/L)	23	600
Sulphate(mg/L)	36.72	400
Nitrate(mg/L)	1.66	50
Fluoride(mg/L)	0.46	1.5
Cadmium(mg/L)	<0.001	0.01
Arsenic(mg/L)	<0.005	0.2
Lead(mg/L)	<0.005	0.1
Zinc(mg/L)	<0.04	15
Chromium(as Cr ⁶)(mg/L)	<0.05	0.05
Oil & Grease (mg/L)	<4.0	0.1
MPN (Index/100 ml)	11	-
Selenium(mg/L)	<0.005	0.01

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Table:10.12
Area: Talcher
Project: Nandira

Project/OCP	Nandira	IS:2296-1982 Tolerance for inland Surface water (Class C)
NAME OF STATIONS	Jambubahali Village Pond	
Date of sampling	3/May/2021	
pH	7.21	6.5-8.5
Dissolved Oxygen(mg/L)	6.7	4
BOD (3 days 27°C(mg/L)	<2.0	3
Color (Hazen unit)	2	300
Total dissolved solids (mg/L)	246	1500
TSS(mg/L)	40	-
Total Hardness(mg/L)	152	-
Copper(mg/L)	<0.03	1.5
Iron(mg/L)	<0.1	50
Chlorides(mg/L)	14	600
Sulphate(mg/L)	52.11	400
Nitrate(mg/L)	0.72	50
Fluoride(mg/L)	<0.30	1.5
Cadmium(mg/L)	<0.001	0.01
Arsenic(mg/L)	<0.005	0.2
Lead(mg/L)	<0.005	0.1
Zinc(mg/L)	<0.04	15
Chromium(as Cr ⁶)(mg/L)	<0.01	0.05
Oil & Grease (mg/L)	<4.0	0.1

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Table: 10.13
Area: Talcher
Project: Nandira

Project/OCP	Nandira	IS:2296-1982
NAME OF STATIONS	Jambubahali Village Pond	Tolerance for inland Surface water (Class C)
Date of sampling	1/Nov/2021	
pH	7.63	6.5-8.5
Dissolved Oxygen(mg/L)	6.4	4
BOD (3 days 27°c(mg/L)	<2.0	3
Color (Hazen unit)	2	300
Total dissolved solids (mg/L)	210	1500
TSS(mg/L)	56	-
Total Hardness(mg/L)	68	-
Copper(mg/L)	<0.03	1.5
Iron(mg/L)	<0.1	50
Chlorides(mg/L)	10	600
Sulphate(mg/L)	12.42	400
Nitrate(mg/L)	<0.5	50
Fluoride(mg/L)	0.39	1.5
Cadmium(mg/L)	<0.001	0.01
Arsenic(mg/L)	<0.005	0.2
Lead(mg/L)	<0.005	0.1
Zinc(mg/L)	<0.04	15
Chromium(as Cr ⁶)(mg/L)	<0.01	0.05
Oil & Grease (mg/L)	<4.0	0.1
MPN (Index/100 ml)	6.1	-
Residual Free Chlorine(mg/L)	<0.2	0.2

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Table: 10.14
Area: Talcher
Project: Deulbera

Project/OCP	Deulbera	IS:2296-1982
NAME OF STATIONS	Pond Water of Gopinathpur Village	Tolerance for inland Surface water (Class C)
Date of sampling	31-Aug-2021	
pH	6.82	6.5-8.5
Dissolved Oxygen(mg/L)	7.2	4
BOD (3 days 27°c(mg/L)	<2.0	3
Color (Hazen unit)	1	300
Total dissolved solids (mg/L)	190	1500
TSS(mg/L)	46	-
Total Hardness(mg/L)	88	-
Copper(mg/L)	<0.03	1.5
Iron(mg/L)	<0.1	50
Chlorides(mg/L)	9.86	600
Sulphate(mg/L)	30.71	400
Nitrate(mg/L)	3.68	50
Fluoride(mg/L)	0.31	1.5
Cadmium(mg/L)	<0.001	0.01
Arsenic(mg/L)	<0.005	0.2
Lead(mg/L)	<0.005	0.1
Zinc(mg/L)	<0.04	15
Chromium(as Cr ⁶)(mg/L)	<0.01	0.05
Oil & Grease (mg/L)	<4.0	0.1
MPN (Index/100 ml)	12	-
Residual Free Chlorine(mg/L)	<0.2	0.2

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Table: 10.15
Area: Talcher
Project: Deulbera

Project/OCP	Deulbera	IS:2296-1982
NAME OF STATIONS	Pond Water of Gopinathpur Village	Tolerance for inland Surface water (Class C)
Date of sampling	31-Jan-2022	
pH	7.78	6.5-8.5
Dissolved Oxygen(mg/L)	6.0	4
BOD (3 days 27°C)(mg/L)	<2.0	3
Color (Hazen unit)	4	300
Total dissolved solids (mg/L)	134	1500
TSS(mg/L)	64	-
Total Hardness(mg/L)	100	-
Copper(mg/L)	<0.04	1.5
Iron(mg/L)	0.40	50
Chlorides(mg/L)	14	600
Sulphate(mg/L)	33	400
Nitrate(mg/L)	1.31	50
Fluoride(mg/L)	0.43	1.5
Cadmium(mg/L)	<0.001	0.01
Arsenic(mg/L)	<0.005	0.2
Lead(mg/L)	<0.005	0.1
Zinc(mg/L)	<0.04	15
Chromium(as Cr ⁶⁺)(mg/L)	<0.05	0.05
Oil & Grease (mg/L)	<4.0	0.1
MPN (Index/100 ml)	13	—
Selenium(mg/L)	<0.005	0.01

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Table: 10.16
Area: Talcher
Project: Mandapal Sand Mine

Project/OCF	Mandapal Sand Mine		IS:2296-1982
NAME OF STATIONS	Upstream - At 200 m Before Leasehold Area	Downstream - At 200 m After Leasehold Area	Tolerance for inland Surface water (Class C)
Date of sampling	3/May/2021	3/May/2021	
pH	7.62	7.17	6.5-8.5
Dissolved Oxygen(mg/L)	6.8	7.0	4
BOD (3 days 27°C(mg/L)	<2.0	<2.0	3
Color (Hazen unit)	2	3	300
Total dissolved solids (mg/L)	130	20	1500
TSS(mg/L)	40	18	-
Total Hardness(mg/L)	104	36	-
Copper(mg/L)	<0.03	<0.03	1.5
Iron(mg/L)	<0.1	<0.1	50
Chlorides(mg/L)	10	2	600
Sulphate(mg/L)	25.63	<1.0	400
Nitrate(mg/L)	<0.5	<0.5	50
Fluoride(mg/L)	<0.30	<0.30	1.5
Cadmium(mg/L)	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	15
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.01	0.05
Oil & Grease (mg/L)	<4.0	<4.0	0.1

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Table: 10.17
Area: Talcher
Project: Mandapal Sand Mine

Project/OCF	Mandapal Sand Mine		IS:2296-1982
NAME OF STATIONS	Upstream - At 200 m Before Leasehold area	Downstream - At 200 m After Leasehold Area	Tolerance for inland Surface water (Class C)
Date of sampling	31-Aug-2021	31-Aug-2021	
pH	7.10	7.15	6.5-8.5
Dissolved Oxygen(mg/L)	7.0	6.8	4
BOD (3 days 27°C)(mg/L)	<2.0	<2.0	3
Color (Hazen unit)	2	2	300
Total dissolved solids (mg/L)	80	76	1500
TSS(mg/L)	68	78	-
Total Hardness(mg/L)	52	52	-
Copper(mg/L)	<0.03	<0.03	1.5
Iron(mg/L)	<0.1	<0.1	50
Chlorides(mg/L)	3.84	3.94	600
Sulphate(mg/L)	20.14	18.00	400
Nitrate(mg/L)	2.61	2.42	50
Fluoride(mg/L)	<0.30	<0.30	1.5
Cadmium(mg/L)	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	15
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.01	0.05
Oil & Grease (mg/L)	<4.0	<4.0	0.1
MPN (Index/100 ml)	7.8	7.8	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	0.2

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Table: 10.18
Area: Talcher
Project: Mandapal Sand Mine

Project/OCP	Mandapal Sand Mine		IS:2296-1982
NAME OF STATIONS	Upstream - At 200 m Before Leasehold area	Downstream - At 200 m After Leasehold Area	Tolerance for inland Surface water (Class C)
Date of sampling	1/Nov/2021	1/Nov/2021	
pH	7.51	7.43	6.5-8.5
Dissolved Oxygen(mg/L)	6.6	6.8	4
BOD (3 days 27°C)(mg/L)	<2.0	<2.0	3
Color (Hazen unit)	3	2	300
Total dissolved solids (mg/L)	88	86	1500
TSS(mg/L)	40	44	-
Total Hardness(mg/L)	52	48	-
Copper(mg/L)	<0.03	<0.03	1.5
Iron(mg/L)	0.38	0.48	50
Chlorides(mg/L)	4	6	600
Sulphate(mg/L)	11.42	8.58	400
Nitrate(mg/L)	<0.5	<0.5	50
Fluoride(mg/L)	0.42	<0.30	1.5
Cadmium(mg/L)	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	15
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.01	0.05
Oil & Grease (mg/L)	<4.0	<4.0	0.1
MPN (Index/100 ml)	3.6	4	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	0.2

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Table: 10.19
Area: Talcher
Project: Mandapal Sand Mine

Project/OCF	Mandapal Sand Mine		IS:2296-1982
NAME OF STATIONS	Upstream - At 200 m Before Leasehold area	Downstream - At 200 m After Leasehold Area	Tolerance for inland Surface water (Class C)
Date of sampling	31-Jan-2022	31-Jan-2022	
pH	7.44	7.39	6.5-8.5
Dissolved Oxygen(mg/L)	6.5	6.3	4
BOD (3 days 27°C)(mg/L)	2.4	2.2	3
Color (Hazen unit)	3	2	300
Total dissolved solids (mg/L)	84	88	1500
TSS(mg/L)	28	24	-
Total Hardness(mg/L)	56	60	-
Copper(mg/L)	<0.04	<0.04	1.5
Iron(mg/L)	<0.1	<0.1	50
Chlorides(mg/L)	6	8	600
Sulphate(mg/L)	10.14	10.71	400
Nitrate(mg/L)	0.98	0.77	50
Fluoride(mg/L)	<0.3	<0.3	1.5
Cadmium(mg/L)	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	15
Chromium(as Cr ⁶⁺)(mg/L)	<0.05	<0.05	0.05
Oil & Grease (mg/L)	<4.0	<4.0	0.1
MPN (Index/100 ml)	7.8	7.8	—
Selenium(mg/L)	<0.005	<0.005	0.01

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Table: 10.20
Area: Talcher
Project: Kakudi and Kishoripal Village

Project/OCP	Kakudi and Kishoripal Village		IS:2296-1982
NAME OF STATIONS	Upstream - At 200 m Before Leasehold Area	Downstream - At 200 m After Leasehold Area	Tolerance for inland Surface water (Class C)
Date of sampling	3/May/2021	3/May/2021	
pH	7.48	7.28	6.5-8.5
Dissolved Oxygen(mg/L)	7.2	6.9	4
BOD (3 days 27°C(mg/L)	<2.0	<2.0	3
Color (Hazen unit)	1	3	300
Total dissolved solids (mg/L)	112	110	1500
TSS(mg/L)	26	38	-
Total Hardness(mg/L)	60	56	-
Copper(mg/L)	<0.03	<0.03	1.5
Iron(mg/L)	<0.1	<0.1	50
Chlorides(mg/L)	6	8	600
Sulphate(mg/L)	19.86	21.97	400
Nitrate(mg/L)	<0.5	<0.5	50
Fluoride(mg/L)	<0.30	<0.30	1.5
Cadmium(mg/L)	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	15
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.01	0.05
Oil & Grease (mg/L)	<4.0	<4.0	0.1

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Table: 10.21
Area: Talcher
Project: Kakudi and Kishoripal Village

Project/OCP	Kakudi and Kishoripal Village		IS:2296-1982 Tolerance for inland Surface water (Class C)
NAME OF STATIONS	Upstream - At 200 m Before Leasehold Area	Downstream - At 200 m After Leasehold Area	
Date of sampling	31-Aug-2021	31-Aug-2021	
pH	7.22	7.40	6.5-8.5
Dissolved Oxygen(mg/L)	6.9	7.0	4
BOD (3 days 27°C(mg/L)	<2.0	<2.0	3
Color (Hazen unit)	1	2	300
Total dissolved solids (mg/L)	78	84	1500
TSS(mg/L)	74	82	-
Total Hardness(mg/L)	44	48	-
Copper(mg/L)	<0.03	<0.03	1.5
Iron(mg/L)	<0.1	<0.1	50
Chlorides(mg/L)	5.91	3.94	600
Sulphate(mg/L)	19.43	18.00	400
Nitrate(mg/L)	2.02	2.26	50
Fluoride(mg/L)	<0.30	<0.30	1.5
Cadmium(mg/L)	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	15
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.01	0.05
Oil & Grease (mg/L)	<4.0	<4.0	0.1
MPN (Index/100 ml)	6.1	8.2	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	0.2

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Table: 10.22
Area: Talcher
Project: Kakudi and Kishoripal Village

Project/OCP	Kakudi and Kishoripal Village		IS:2296-1982 Tolerance for inland Surface water (Class C)
NAME OF STATIONS	Upstream - At 200 m Before Leasehold Area	Downstream - At 200 m After Leasehold Area	
Date of sampling	1/Nov/2021	1/Nov/2021	
pH	7.41	7.42	6.5-8.5
Dissolved Oxygen(mg/L)	6.2	6.6	4
BOD (3 days 27°C(mg/L)	<2.0	<2.0	3
Color (Hazen unit)	2	3	300
Total dissolved solids (mg/L)	84	86	1500
TSS(mg/L)	46	52	-
Total Hardness(mg/L)	50	52	-
Copper(mg/L)	<0.03	<0.03	1.5
Iron(mg/L)	0.42	0.29	50
Chlorides(mg/L)	4	8	600
Sulphate(mg/L)	13.28	12.85	400
Nitrate(mg/L)	<0.5	<0.5	50
Fluoride(mg/L)	0.31	0.36	1.5
Cadmium(mg/L)	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	15
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.01	0.05
Oil & Grease (mg/L)	<4.0	<4.0	0.1
MPN (Index/100 ml)	5.5	6.1	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	0.2

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Table: 10.23
Area: Talcher
Project: Kakudi and Kishoripal Village

Project/OCP	Kakudi and Kishoripal Village		IS:2296-1982 Tolerance for inland Surface water (Class C)
NAME OF STATIONS	Upstream - At 200 m Before Leasehold Area	Downstream - At 200 m After Leasehold Area	
Date of sampling	31-Jan-2022	31-Jan-2022	
pH	7.36	7.38	6.5-8.5
Dissolved Oxygen(mg/L)	6.4	6.2	4
BOD (3 days 27°C(mg/L)	2.4	2.3	3
Color (Hazen unit)	1	4	300
Total dissolved solids (mg/L)	86	88	1500
TSS(mg/L)	26	28	-
Total Hardness(mg/L)	60	64	-
Copper(mg/L)	<0.04	<0.04	1.5
Iron(mg/L)	<0.1	<0.1	50
Chlorides(mg/L)	4	6	600
Sulphate(mg/L)	11.29	11.71	400
Nitrate(mg/L)	0.54	0.60	50
Fluoride(mg/L)	<0.3	<0.3	1.5
Cadmium(mg/L)	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	0.2
Lead(mg/L)	<0.005	<0.005	0.1
Zinc(mg/L)	<0.04	<0.04	15
Chromium(as Cr ⁶⁺)(mg/L)	<0.05	<0.05	0.05
Oil & Grease (mg/L)	<4.0	<4.0	0.1
MPN (Index/100 ml)	6.1	8.2	—
Selenium(mg/L)	<0.005	<0.005	0.01

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WELL WATER QUALITY

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TABLE NO.11 FOR WELL WATER QUALITY DATA

Table:11.1

Area: Jagannath

Project: Jagannath OCP

Monitoring Station: Rakas village well

Date of sampling	Water level
29-May-21	Well not found
31-Aug-21	Village well not found
27-Nov-21	3.61
25-Jan-22	3.61

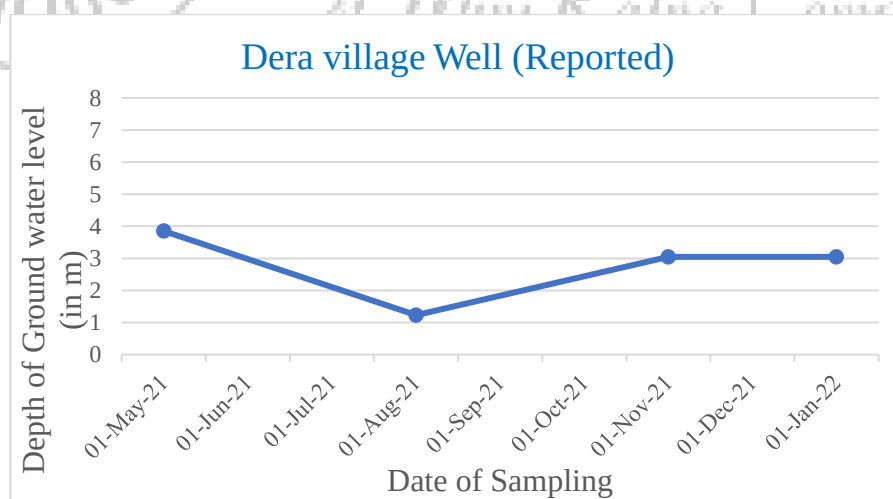
Table:11.2

Area: Jagannath

Project: Ananta OCP

Monitoring Station: Dera village Well (Reported)

Date of sampling	Water level
29-May-21	3.85
07-Aug-21	1.23
27-Nov-21	3.05
25-Jan-22	3.05



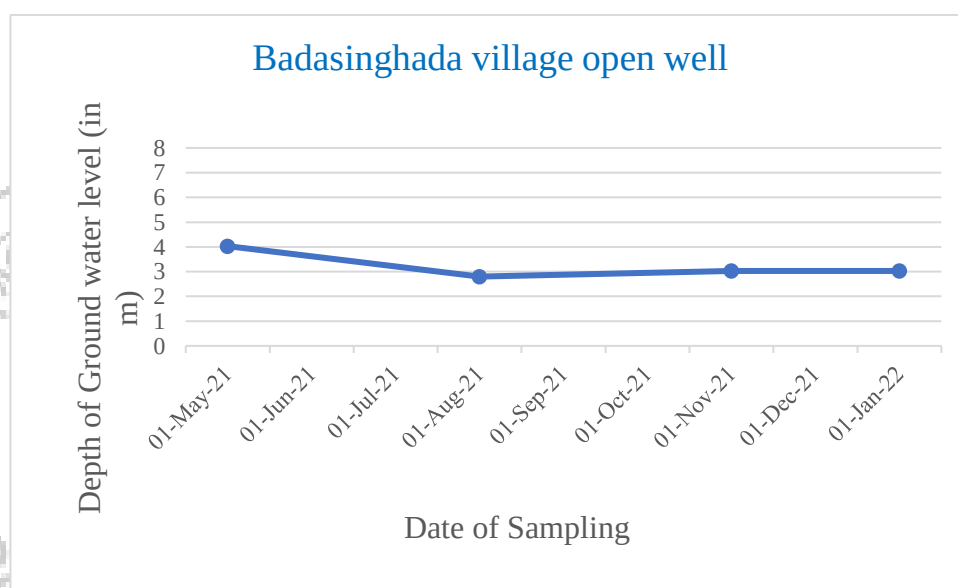
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Table:11.3

Area: Bhaartpur**Project:** Bhaartpur OCP**Monitoring Station:** Badasinghada village open well

Date of sampling	Water level
31-May-21	4.03
07-Aug-21	2.8
30-Nov-21	3.03
25-Jan-22	3.03

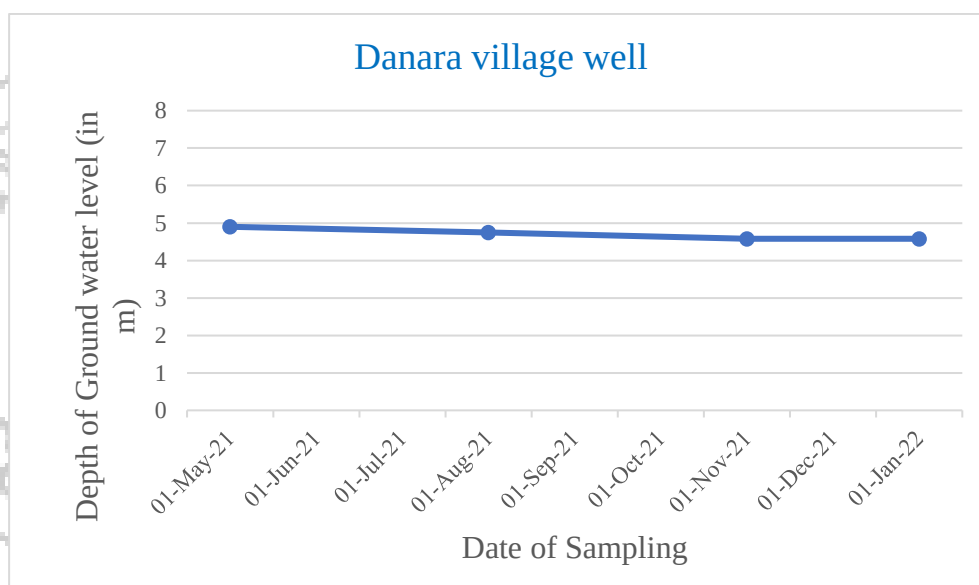


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Table:11.4
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Danara village well

Date of sampling	Water level
31-May-21	4.9
07-Aug-21	4.75
30-Nov-21	4.58
24-Jan-22	4.58

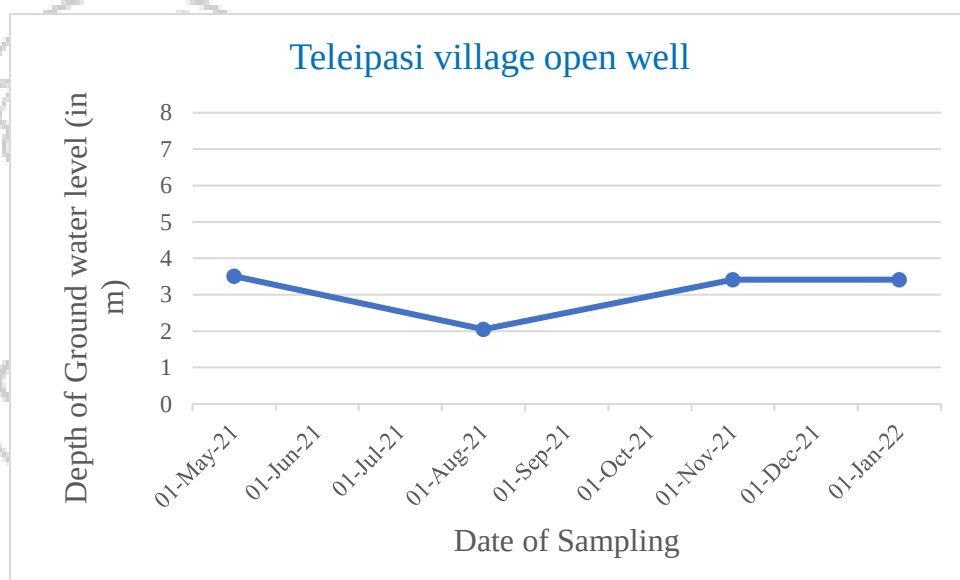


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Table:11.5
Area: Bhaartpur
Project: Bhaartpur OCP
Monitoring Station: Teleipasi village open well

Date of sampling	Water level
31-May-21	3.51
31-Aug-21	2.05
30-Nov-21	3.41
25-Jan-22	3.41



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Table:11.6
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Balunga Khamar village well

Date of sampling	Water level
29-May-21	1.95
07-Aug-21	1.7
27-Nov-21	1.85
25-Jan-22	1.85

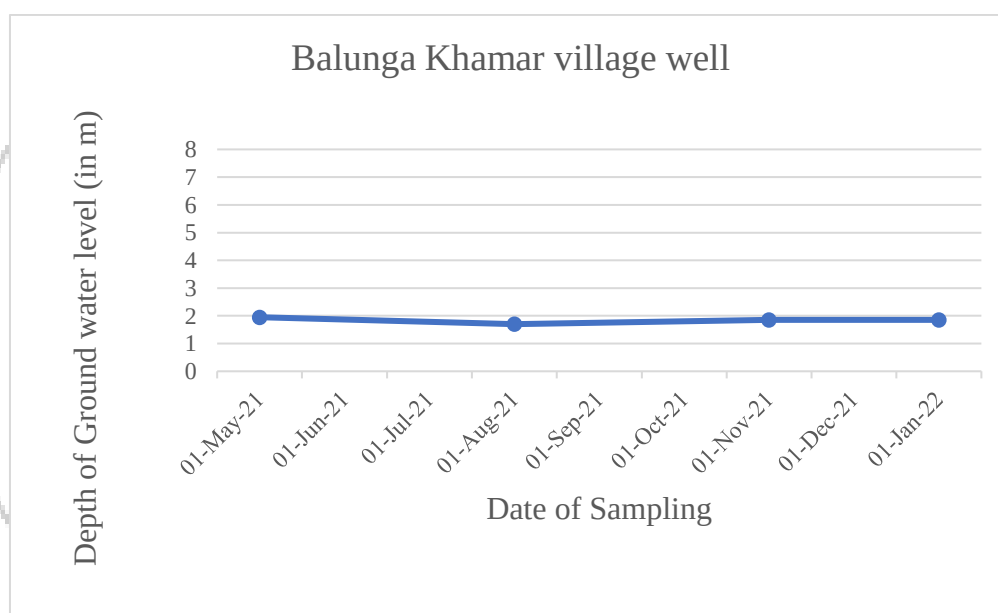
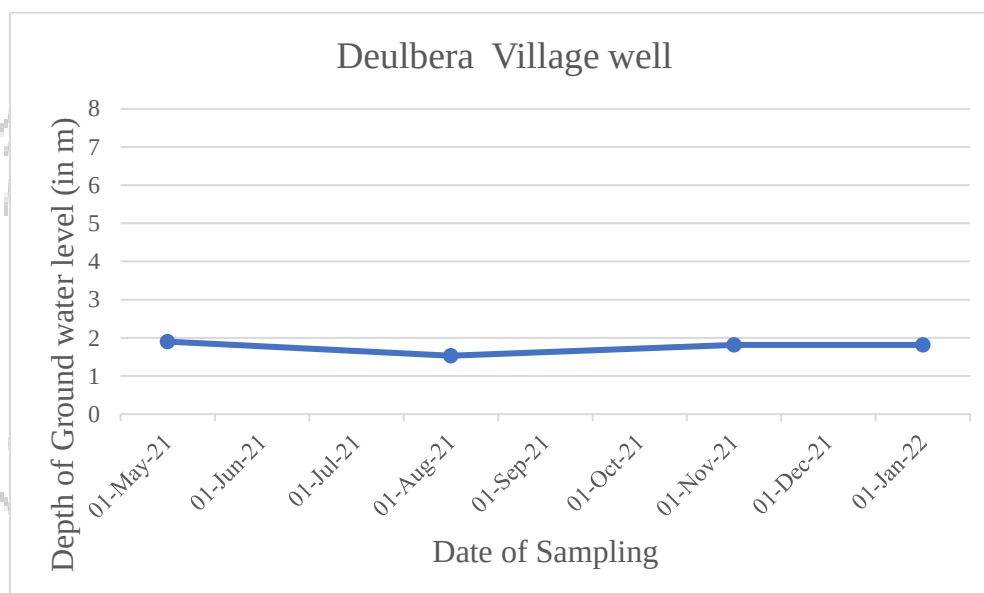


Table:11.7
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Deulbera Village well

Date of sampling	Water level
29-May-21	1.9
07-Aug-21	1.53
27-Nov-21	1.81
25-Jan-22	1.81

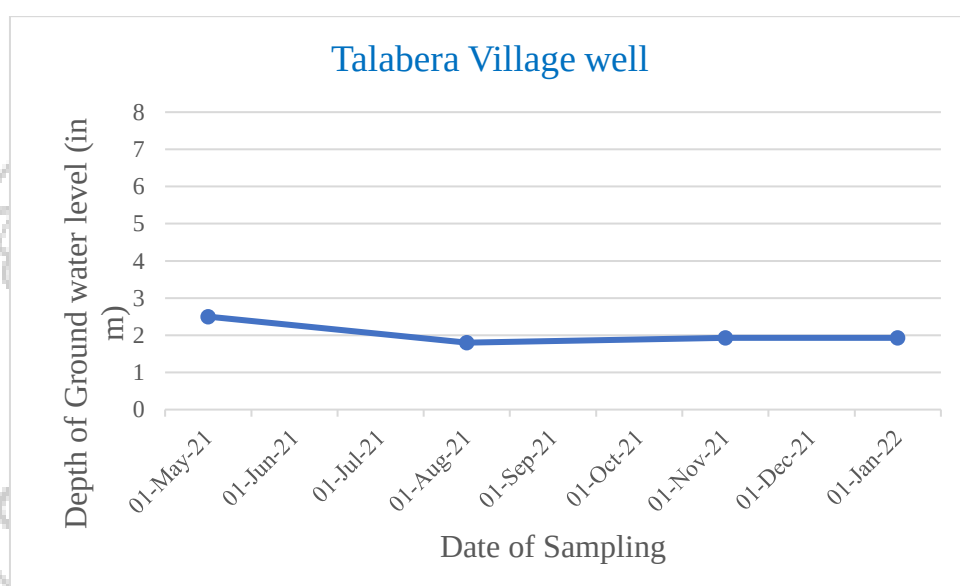


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Table:11.8
Area: Lingaraj
Project: Lingaraj OCP OCP
Monitoring Station: Talabera Village well

Date of sampling	Water level
29-May-21	2.5
07-Aug-21	1.8
27-Nov-21	1.93
25-Jan-22	1.93

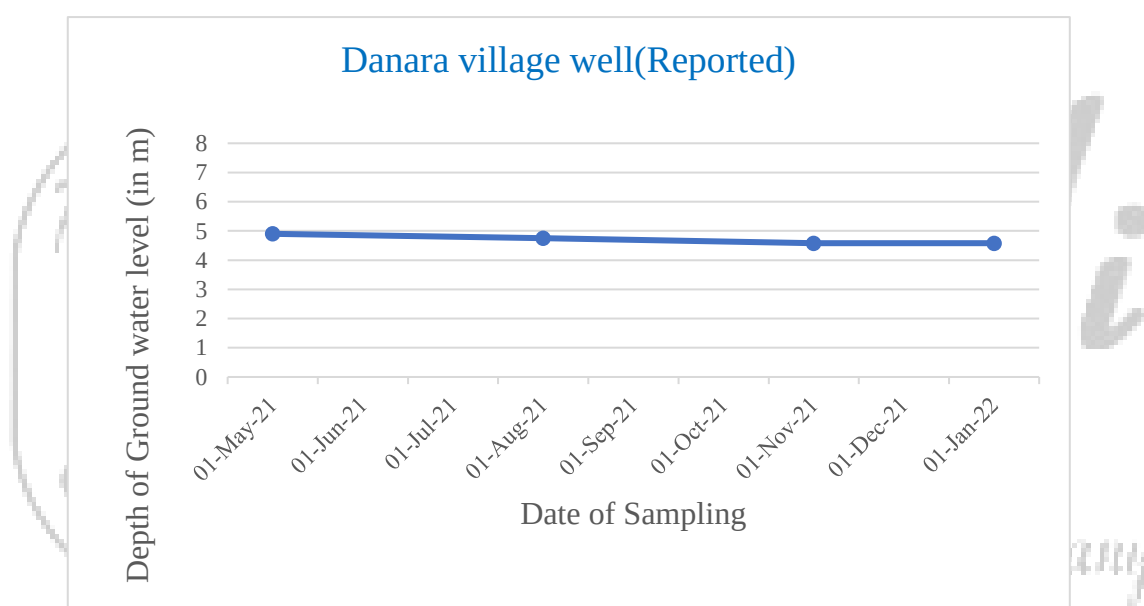


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Table:11.9
Area: Hingula
Project: Balaram OCP
Monitoring Station: Danara village well (Reported)

Date of sampling	Water level
31-May-21	4.9
07-Aug-21	4.75
30-Nov-21	4.58
24-Jan-22	4.58

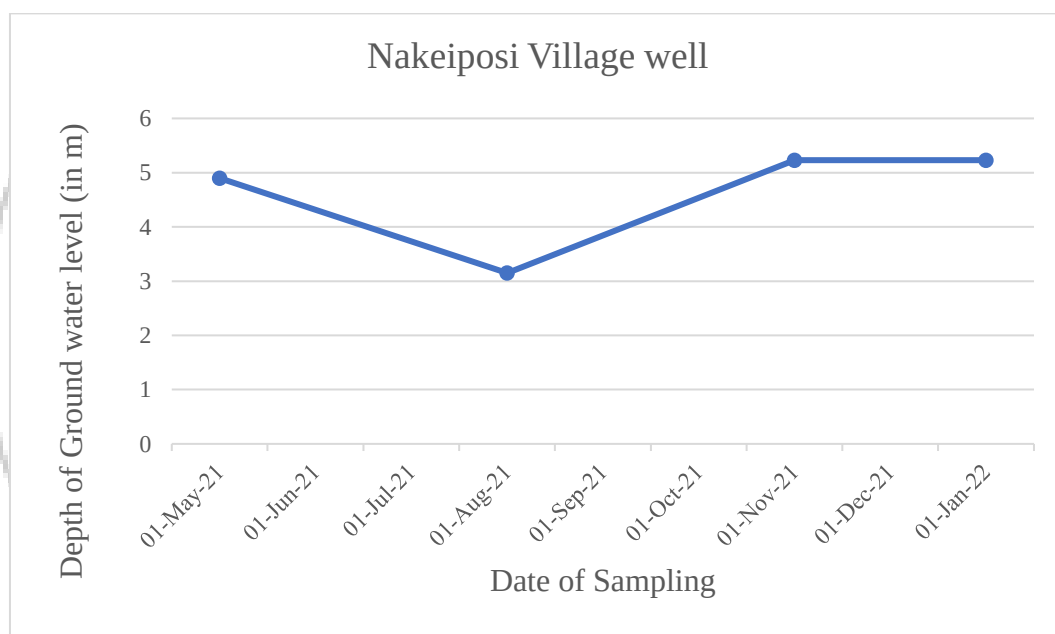


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Table:11.10
Area: Hingula
Project: Balaram OCP
Monitoring Station: Nakeiposi Village well

Date of sampling	Water level
31-May-21	4.9
31-Aug-21	3.15
30-Nov-21	5.23
24-Jan-22	5.23

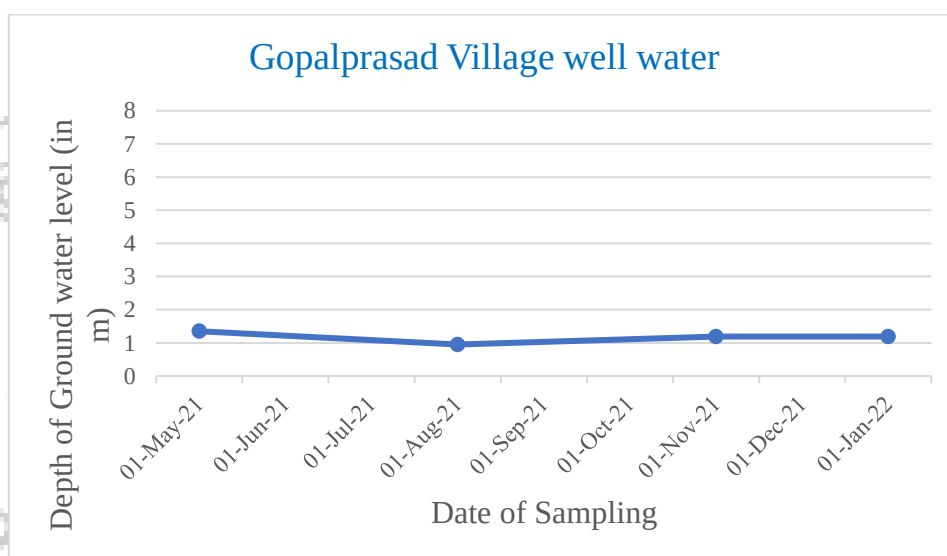


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Table:11.11
Area Hingula
Project Hingula OCP
Monitoring Station: Gopalprasad Village well water

Date of sampling	Water level
29-May-21	1.35
27-Aug-21	0.95
29-Nov-21	1.19
25-Jan-22	1.19

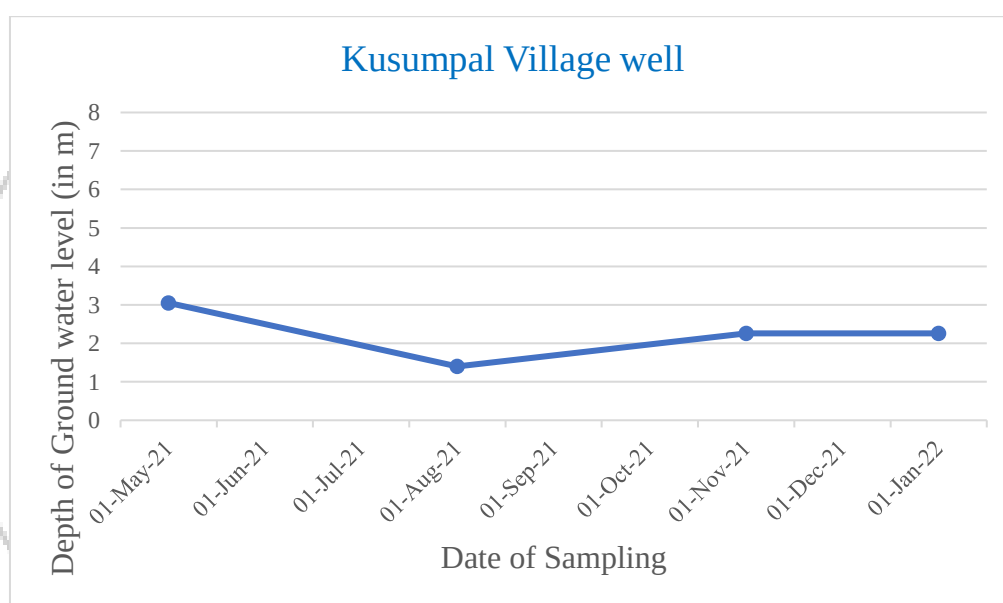


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Table:11.12
Area: Hingula
Project: Hingula OCP
Monitoring Station: Kusumpal Village well

Date of sampling	Water level
31-May-21	3.05
27-Aug-21	1.4
29-Nov-21	2.26
24-Jan-22	2.26

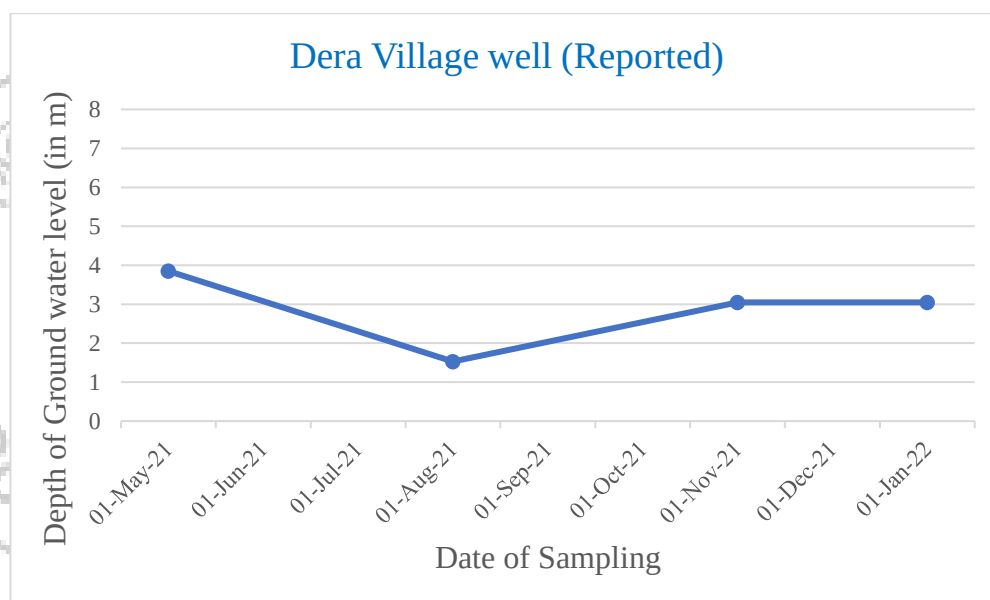


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Table:11.13
Area Talcher
Project Talcher Colliery
Monitoring Station: Dera Village well (Reported)

Date of sampling	Water level
29-May-21	3.85
07-Aug-21	1.53
27-Nov-21	3.05
25-Jan-22	3.05

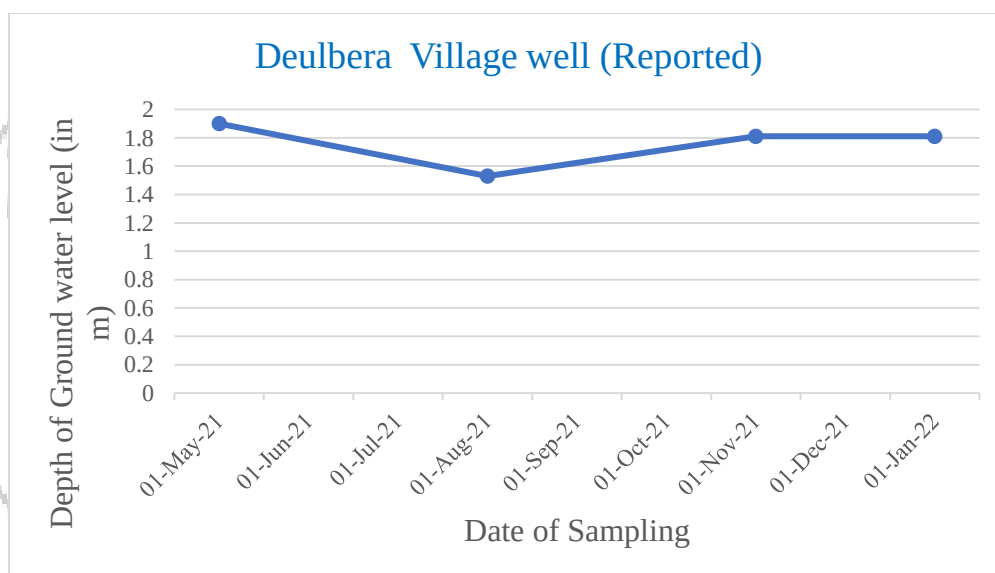


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Table:11.14
Area Talcher
Project Deulbera Colliery
Monitoring Station: Deulbera Village well (Reported)

Date of sampling	Water level
29-May-21	1.9
07-Aug-21	1.53
27-Nov-21	1.81
24-Jan-22	1.81

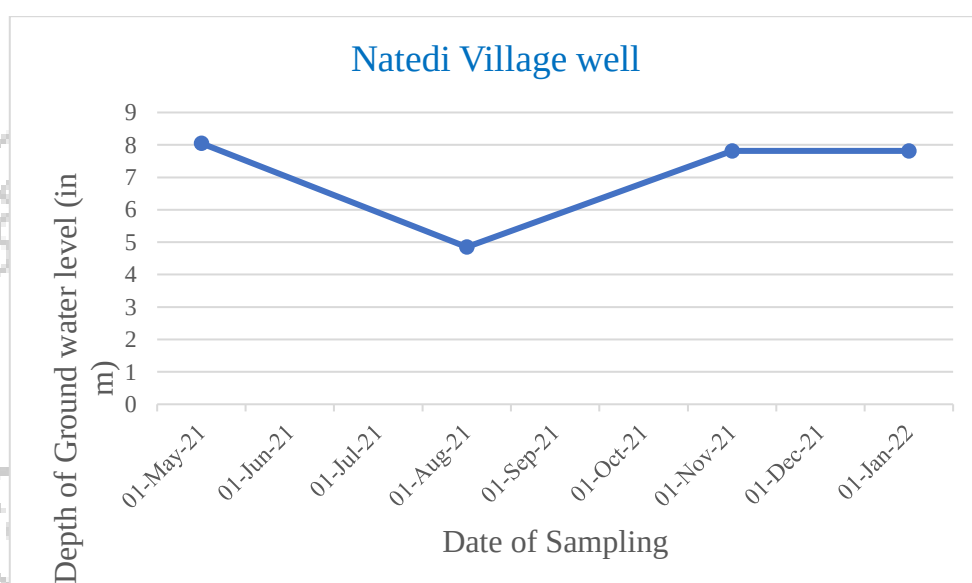


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Table:11.15
Area: Talcher
Project: Nandira Colliery
Monitoring Station: Natedi Village well

Date of sampling	Water level
31-May-21	8.05
31-Aug-21	4.85
30-Nov-21	7.82
24-Jan-22	7.82



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Figure 1 Ground Mounted Solar panels in MCL



Figure 2 Ananta Medicinal Garden

Ananta medicinal garden has been developed by Mahanadi Coalfields Limited on the backfilled area of Ananta Open Cast Project

Source: EGS Report 2019-2020, CIL

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DRINKING WATER QUALITY

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TABLE NO. 12 FOR DRINKING WATER QUALITY DATA

Table:12.1

Area: Jagannath

Project: Jagannath OCP

Project / OCP	Jagannath OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Balanda Colony Tap Water													
Date of Sampling	Apr-2021	May-2021	Jun - 2021	Jul-2021	Aug - 2021	Sep-2021	Oct - 2021	Nov-2021	Dec-2021	Jan-2022	Feb-2022	Mar-2022	Acceptabl e	Permissible
Colour(Hazen)	2	1	2	2	1	1	2	1	<1.0	<2.0	<1.0	4	5	15
Turbidity(NTU)	1	2	1	1	4	2	2	1	1	2	2	1	1	5
pH	7.41	7.37	7.58	7.30	7.39	7.31	6.16	7.07	7.17	7.71	7.83	7.28	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	56	52	44	48	40	48	12	60	80	65.4	68.2	63.9	200	600
Total Hardness(Ca CO3)(mg/L)	252	248	284	52	208	376	48	204	200	152	160	264	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	18	22	16	9.93	11.83	18	39	10	17	10	61	16	250	1000
Total Dissolve Solid(mg/L)	404	418	462	348	348	534	130	278	452	254	286	384	500	2000
Calcium(mg/L)	72.14	70.54	84.97	14.43	60.92	110.62	8.02	52.8	49.6	41.6	38.4	75.2	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.23	0.1	0.3
Sulphate(mg/L)	114.03	108.42	155.94	141.91	123.29	190.70	7.23	79.25	83.04	108.4	110.86	125	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	13.74	<0.5	<0.5	1.70	1.83	1.98	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	0.51	1.15	0.44	0.89	<0.30	0.41	0.3	0.66	0.71	0.62	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.11	<0.04	0.15	0.81	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	9.3	12	17	12	12	8.3	<1.8	<1.8	1.8	9.3	2	5.8	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)								<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.2
Area: Jagannath
Project: Jagannath OCP

Project / OCP	Jagannath OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Jagannath Colony Tap Water													
Date of Sampling	Apr - 2021	May- 2021	Jun- 2021	Jul- 2021	Aug - 2021	Sep- 2021	Oct- 2021	Nov- 2021	Dec- 2021	Jan-2002	Feb-2022	Mar-2022	Acceptable	Permissible
Colour(Hazen)	1	2	1	1	2	2	1	2	<1.0	<2.0	<1.0	2	5	15
Turbidity(NTU)	2	1	3	2	3	1	1	2	1	2	3	1	1	5
pH	7.63	7.51	7.01	7.18	7.43	7.68	6.38	7.26	7.3	7.63	7.71	7.45	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	108	112	64	52	36	156	12	52	80	69.8	72.4	72.4	200	600
Total Hardness(Ca CO3)(mg/L)	324	328	168	172	184	248	56	196	176	152	144	268	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1 0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	82	88	30	29.7 9	11.8 3	115	6	10	13	6	10	14	250	1000
Total Dissolve Solid(mg/L)	506	520	318	340	310	588	102	276	421	252	282	386	500	2000
Calcium(mg/L)	76.9 5	73.75	44.8 9	46.4 9	52.9 0	83.3 7	6.41	51.2	48.0	36.8	33.6	80	75	200
Copper(mg/L)	<0.0 3	<0.03	<0.0 3	<0.0 3	<0.0 3	<0.0 3	<0.0 3	<0.0 3	<0.0 3	<0.0 3	<0.0 3	<0.0 4	0.05	1.5
Manganese(mg/L)	<0.0 4	<0.04	<0.0 4	<0.0 4	<0.0 4	<0.0 4	<0.0 4	<0.0 4	<0.0 4	<0.0 4	<0.0 4	<0.0 7	0.1	0.3
Sulphate(mg/L)	76.2 5	68.61	92.8 7	139. 12	106. 43	49.0 1	33.3 6	81.82	100. 44	105. 44	108	128	200	400
Nitrate(mg/L)	16.3 4	14.68	5.77	<0.5 0	0.95	34.5 6	<0.5	<0.5	<0.5	1.53	1.68	2.31	45	No relaxation
Fluoride(mg/L)	<0.3 0	<0.30	0.40	1.10	0.38	0.76	<0.3 0	<0.3 0	<0.3 0	0.66	0.67	0.68	1	1.5
Arsenic(mg/L)	<0.0 05	<0.00 5	<0.0 05	<0.0 05	<0.0 05	<0.0 05	<0.0 05	<0.0 05	<0.0 05	<0.0 05	<0.0 05	<0.0 05	0.01	0.05
Lead(mg/L)	<0.0 05	<0.00 5	<0.0 05	<0.0 05	<0.0 05	<0.0 05	<0.0 05	<0.0 05	<0.0 05	<0.0 05	<0.0 05	<0.0 05	0.01	No relaxation
Zinc(mg/L)	<0.0 4	<0.04	0.42	<0.0 4	0.13	<0.0 4	<0.0 4	<0.0 4	0.22	0.05	0.17	2.18	5	15
Total Chromium (mg/L)	<0.0 1	<0.01	<0.0 1	<0.0 1	<0.0 1	<0.0 1	<0.0 1	<0.0 1	<0.0 1	<0.0 1	<0.0 1	<0.0 1	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.1 0	<0.1 0	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.0 01	<0.00 1	<0.0 01	<0.0 01	<0.0 01	<0.0 01	<0.0 01	<0.0 01	<0.0 01	<0.0 01	<0.0 01	<0.0 01	0.003	No relaxation
MPN (Index/100 ml)	12	12	8	11	11	3.6	<1.8	<1.8	1.8	12	<1.8	6.8	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)								<0.0 01	<0.0 01	<0.0 01	<0.0 01	<0.0 01	0.001	0.002
Selenium(mg/L)									<0.0 05	<0.0 05	<0.0 05	<0.0 05	0.01	No relaxation

Table: 12.3
Area: Jagannath
Project: Ananta OCP

Project / OCP	Ananta OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Ananta Colony Tap Water												Acceptable	Permissible
Date of Sampling	16-Apr-2021	17-May-2021	15-Jun-2021	1-Jul-2021	13-Aug-2021	13-Sep-2021	1-Oct-2021	15-Nov-2021	15-Dec-2021	14-Jan-2022	14-Feb-2022	14-Mar-2022		
Colour(Hazen)	2	2	1	2	1	1	2	1	<1.0	<2.0	<1.0	1	5	15
Turbidity(NTU)	1	3	1	4	2	2	1	1	2	1	1	1	1	5
pH	7.53	7.45	7.42	7.27	6.60	6.74	7.04	7.25	7.43	7.57	7.39	7.48	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	48	56	28	32	16	44	84	60	60	65.4	63.9	59.6	200	600
Total Hardness(CaCO ₃)(mg/L)	196	204	56	140	52	200	100	64	56	64	68	64	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	20	26	8	27.8	5.91	12	17	6	17	6	35	8	250	1000
Total Dissolve Solid(mg/L)	288	304	104	102	102	320	186	98	180	110	128	102	500	2000
Calcium(mg/L)	41.68	43.29	17.64	48.10	14.43	52.90	17.64	16	13	14.4	12.8	20.8	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	<0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	88.61	92.56	30.21	37.21	28.57	92.11	24.50	14.13	7.83	8.54	10.14	7.86	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	1.16	<0.5	<0.5	<0.5	<0.5	0.81	1.02	0.92	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30	0.54	<0.30	<0.30	<0.30	0.37	0.40	0.33	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	<0.04	0.14	<0.04	<0.04	<0.04	0.1	<0.04	<0.04	2.09	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	20	17	14	14	13	9	6.8	4	3.6	20	14	4.0	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)								<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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Table: 12.4
Area: Jagannath
Project: Ananta OCP

Project / OCP	Ananta OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Dera Village Tube Well Water												Acceptable	Permissible
Date of Sampling	Apr-2021	May-2021	Jun-2021	1-Jul-2021	13-Aug-2021	13-Sep-2021	1-Oct-2021	15-Nov-2021	15-Dec-2021	14-Jan-2022	14-Feb-2022	14-Mar-2022		
Colour(Hazen)	3	2	2	1	2	2	1	2	<1.0	<2.0	<1.0	2	5	15
Turbidity(NTU)	4	3	2	2	3	4	3	1	2	2	1	1	1	5
pH	6.64	6.78	7.58	6.81	7.78	8.21	7.18	7.41	6.50	7.78	7.62	7.63	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	172	168	52	136	68	536	76	80	60	139.5	144.8	93.7	200	600
Total Hardness(CaCO3)(mg/L)	228	220	268	180	136	368	244	108	156	212	200	116	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	0.16	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	46	48	14	27.8	47.32	318	21	6	10	48	30	14	250	1000
Total Dissolve Solid(mg/L)	332	346	430	306	340	1208	364	184	363	436	470	206	500	2000
Calcium(mg/L)	72.14	70.54	73.75	51.30	41.68	91.38	57.72	28.8	36.8	62.4	56	24	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.31	0.08	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	5.83	10.73	156.36	57.94	41.29	1.55	110.70	37.98	43.19	56.86	58.57	5.57	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	11.53	40.76	<0.5	2.44	<0.5	42.93	66.6	44.1	2.91	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	0.46	0.37	0.59	0.89	0.36	0.36	<0.30	0.30	<0.3	0.41	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.63	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	1.76	0.38	0.14	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	13	14	22	5.5	<1.8	14	11	11	6.1	13	2	6.1	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)								<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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Table: 12.5
Area: Bharatpur
Project: Bharatpur OCP

Project / OCP	Bharatpur OCP				Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Tap water in Nehru Satabdi Nagar A Type Quarters					
Date of Sampling	14-May-2021	13-Aug-2021	13-Nov-2021	14-Feb-2022	Acceptable	Permissible
Colour(Hazen)	1	2	2	<1.0	5	15
Turbidity(NTU)	2	4	2	1	1	5
pH	6.92	8.08	7.88	7.50	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	144	168	184	93.7	200	600
Total Hardness(Ca CO ₃)(mg/L)	152	132	156	168	200	600
Iron(mg/L)	<0.1	<0.10	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	20	13.8	12	32	250	1000
Total Dissolve Solid(mg/L)	264	236	240	276	500	2000
Calcium(mg/L)	33.67	33.67	33.6	44.8	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	13.49	6.14	41.12	41.43	200	400
Nitrate(mg/L)	<0.5	0.59	<0.5	13.1	45	No relaxation
Fluoride(mg/L)	<0.30	0.45	0.45	0.55	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	0.17	<0.04	0.12	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.10	<0.2	<0.1	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	0	<1.8	<1.8	5.5	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)			<0.001	<0.001	0.001	0.002
Selenium(mg/L)				<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.6
Area: Bharatpur
Project: Bharatpur OCP

Project / OCP	Bharatpur OCP					Indian Drinking Standards (IS-10500):2012
Monitoring Station	Tap water in Nehru Satabdi Nagar B Type Quarters					
Date of Sampling	14-May-2021	13-Aug-2021	13-Nov-2021	14-Feb-2022	Acceptable	Permissible
Colour(Hazen)	2	1	1	<1.0	5	15
Turbidity(NTU)	3	2	2	1	1	5
pH	6.88	8.24	7.73	6.72	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	136	172	156	276.9	200	600
Total Hardness(Ca CO ₃)(mg/L)	148	136	160	200	200	600
Iron(mg/L)	<0.1	<0.10	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	24	13.8	14	24	250	1000
Total Dissolve Solid(mg/L)	272	240	252	358	500	2000
Calcium(mg/L)	35.27	32.06	36.8	48	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	12.62	5.86	42.98	2	200	400
Nitrate(mg/L)	<0.5	0.59	<0.5	<0.5	45	No relaxation
Fluoride(mg/L)	<0.30	0.47	0.33	0.66	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	0.17	<0.04	0.05	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.10	<0.2	<0.1	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	0	<1.8	<1.8	<1.8	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)			<0.001	<0.001	0.001	0.002
Selenium(mg/L)				<0.005	0.01	No relaxation

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Table: 12.7
Area: Bharatpur
Project: Bharatpur OCP

Project / OCP	Bharatpur OCP				Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Tap water in Nehru Satabdi Nagar C Type Quarters					
Date of Sampling	14-May- 2021	13-Aug- 2021	13-Nov- 2021	14-Feb- 2022	Acceptable	Permissible
Colour(Hazen)	1	1	2	<1.0	5	15
Turbidity(NTU)	2	1	2	2	1	5
pH	6.81	8.22	7.94	7.45	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	152	168	188	93.7	200	600
Total Hardness(Ca CO3)(mg/L)	144	136	156	160	200	600
Iron(mg/L)	<0.1	<0.10	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	20	13.8	10	18	250	1000
Total Dissolve Solid(mg/L)	270	230	246	278	500	2000
Calcium(mg/L)	36.87	30.46	35.2	38.4	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	10.83	6.00	10.13	53.72	200	400
Nitrate(mg/L)	<0.5	0.54	<0.5	13.2	45	No relaxation
Fluoride(mg/L)	<0.30	0.34	<0.30	0.59	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	0.06	5	15
Total Chromium (mg/L)	<0.01	0.01	<0.01	0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.10	<0.2	<0.1	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	0	<1.8	<1.8	<1.8	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)			<0.001	<0.001	0.001	0.002
Selenium(mg/L)				<0.005	0.01	No relaxation

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Table: 12.8
Area: Bharatpur
Project: Bharatpur OCP

Project / OCP	Bharatpur OCP				Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Tap water in Nehru Satabdi Nagar Transit House					
Date of Sampling	14-May-2021	13-Aug-2021	13-Nov-2021	14-Feb-2022	Acceptable	Permissible
Colour(Hazen)	1	2	3	<1.0	5	15
Turbidity(NTU)	1	2	2	1	1	5
pH	7.09	7.86	7.95	7.51	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	72	60	180	93.7	200	600
Total Hardness(Ca CO ₃)(mg/L)	68	172	144	188	200	600
Iron(mg/L)	<0.1	<0.10	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	26	11.83	10	35	250	1000
Total Dissolve Solid(mg/L)	194	290	238	282	500	2000
Calcium(mg/L)	27.25	40.08	33.60	51.2	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	14.35	98.0	7.28	49.72	200	400
Nitrate(mg/L)	18.43	<0.50	<0.5	13.39	45	No relaxation
Fluoride(mg/L)	<0.30	0.49	<0.30	0.54	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.10	<0.2	<0.1	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	0	<1.8	<1.8	<1.8	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)			<0.001	<0.001	0.001	0.002
Selenium(mg/L)				<0.005	0.01	No relaxation

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Table: 12.9
Area: Bharatpur
Project: Bharatpur OCP

Project / OCP	Bharatpur OCP				Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Joragadia Village Open Well				Acceptable	Permissible
Date of Sampling	15-May-2021	13-Aug-2021	13-Nov-2021	14-Feb-2022		
Colour(Hazen)	2	3	1	<1.0	5	15
Turbidity(NTU)	3	1	3	1	1	5
pH	8.01	8.23	8.25	6.58	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	106	364	340	12.8	200	600
Total Hardness(Ca CO ₃)(mg/L)	160	256	204	256	200	600
Iron(mg/L)	<0.1	<0.10	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	38	65.06	17	26	250	1000
Total Dissolve Solid(mg/L)	414	554	460	886	500	2000
Calcium(mg/L)	32.06	62.52	40	68.8	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	56.62	1.71	1.428	262.86	200	400
Nitrate(mg/L)	12.26	0.92	<0.5	5.44	45	No relaxation
Fluoride(mg/L)	<0.30	0.84	0.45	0.84	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	0.14	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.10	<0.2	<0.1	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	0	<1.8	<1.8	<1.8	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)			<0.001	<0.001	0.001	0.002
Selenium(mg/L)				<0.005	0.01	No relaxation

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Table: 12.10
Area: Bharatpur
Project: Bharatpur OCP

Project / OCP	Bharatpur OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office, BOCP													
Date of Sampling	15-Apr-2021	17-May-2021	14-Jun-2021	13-Jul-2021	13-Aug-21	14-Sep-2021	1-Oct-2021	13-Nov-2021	13-Dec-2021	14-Jan-2022	14-Feb-2022	14-Mar-2022	Acceptable	Permissible
Colour(Hazen)	1	1	1	1	1	2	2	2	<1.0	<2.0	<1.0	3	5	15
Turbidity(NTU)	2	2	3	3	3	3	1	4	1	1	1	1	1	5
pH	6.94	7.01	6.58	7.09	5.76	7.94	7.14	7.80	7.84	7.07	7.19	7.51	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	112	108	68	200	128	340	64	152	80	213.6	217.3	59.6	200	600
Total Hardness(CaCO3)(mg/L)	152	156	552	172	492	312	184	196	213	168	160	52	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	22	30	20	25.81	15.77	115	14	47	25	27	6	6	250	1000
Total Dissolve Solid(mg/L)	224	248	728	318	694	754	296	326	370	330	356	98	500	2000
Calcium(mg/L)	44.89	46.49	128.26	51.30	126.65	120.24	36.87	48	72	57.6	54.4	14.4	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	21.11	24.86	277.62	18.68	250.29	62.81	98.60	19.99	17.54	19.44	20.57	7.57	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	20.03	0.55	15.53	<0.5	1.62	1.48	4.32	3.71	0.71	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	0.68	0.71	<0.38	0.68	<0.30	<0.30	<0.30	0.79	0.73	0.27	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.31	<0.04	0.40	<0.04	0.46	<0.04	<0.04	<0.04	0.14	0.07	0.14	0.11	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	8	8.2	8.3	8.3	8.3	4	3.7	4	1.8	8	<1.8	4.0	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	0.2	0.2	<0.2	<0.2	0.2	0.2	0.2	0.2	1.0
Phenolics(mg/L)								<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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Table: 12.11
Area: Bharatpur
Project: Bharatpur OCP

Project / OCP	Bharatpur OCP				Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Badasinga Village Open Well					
Date of Sampling	14-May-2021	14-Aug-2021	13-Nov-2021	14-Feb-2022	Acceptable	Permissible
Colour(Hazen)	2	1	1	<1.0	5	15
Turbidity(NTU)	4	2	2	1	1	5
pH	7.41	8.22	7.88	6.85	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	208	224	156	230	200	600
Total Hardness(Ca CO ₃)(mg/L)	218	172	272	248	200	600
Iron(mg/L)	<0.1	<0.10	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	104	94.64	29	160	250	1000
Total Dissolve Solid(mg/L)	858	706	898	864	500	2000
Calcium(mg/L)	46.49	54.51	70.4	64	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	122.41	62.29	79.53	88.57	200	400
Nitrate(mg/L)	35.46	42.16	36.86	36.6	45	No relaxation
Fluoride(mg/L)	<0.30	0.71	0.36	0.80	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	0.15	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.10	<0.2	<0.1	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	0	1.8	<1.8	8.3	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)			<0.001	<0.001	0.001	0.002
Selenium(mg/L)				<0.005	0.01	No relaxation

Table: 12.12
Area: Bharatpur
Project: Bharatpur OCP

Project / OCP	Bharatpur OCP				Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Taleipasi Village Open Well					
Date of Sampling	15-May-2021	14-Aug-2021	13-Nov-2021	14-Feb-2022	Acceptable	Permissible
Colour(Hazen)	2	1	2	<1.0	5	15
Turbidity(NTU)	3	1	1	1	1	5
pH	6.85	8.30	7.74	6.86	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	180	196	164	225.8	200	600
Total Hardness(Ca CO ₃)(mg/L)	250	284	300	252	200	600
Iron(mg/L)	<0.1	<0.10	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	48	72.95	12	158	250	1000
Total Dissolve Solid(mg/L)	354	496	494	868	500	2000
Calcium(mg/L)	80.16	96.19	72	65.6	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	8.52	43.86	64.11	89.72	200	400
Nitrate(mg/L)	<0.5	33.70	<0.5	36.56	45	No relaxation
Fluoride(mg/L)	<0.30	0.55	0.47	0.76	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	0.14	<0.04	0.15	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.10	<0.2	<0.1	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	0	1.8	<1.8	1.8	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)			<0.001	<0.001	0.001	0.002
Selenium(mg/L)				<0.005	0.01	No relaxation

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Table: 12.13
Area: Lingraj
Project: Lingraj OCP

Project / OCP	Lingraj OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	GM Office, Lingraj Area Tap Water													
Date of Sampling	16-Apr-2021	18-May-2021	14-Jun-2021	14-Jul-2021	14-Aug-2021	13-Sep-2021	1-Oct-2021	15-Nov-2021	15-Dec-2021	14-Jan-2022	14-Feb-2022	14-Mar-2022	Acceptable	Permissible
Colour(Hazen)	2	1	1	1	1	1	2	2	<1.0	<2.0	<1.0	2	5	15
Turbidity(NTU)	1	2	2	1	2	1	2	3	1	1	2	1	1	5
pH	7.49	7.39	7.44	6.86	8.09	7.63	7.55	7.77	7.61	7.71	7.78	7.62	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	96	104	88	36	92	56	128	88	168	95.9	98	115	200	600
Total Hardness(CaCO3)(mg/L)	156	160	132	48	124	176	92	112	116	120	124	120	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	0.14	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	28	34	22	9.93	17.74	16	19	47	13	14	18	18	250	1000
Total Dissolve Solid(mg/L)	278	294	264	104	234	288	194	190	352	208	226	244	500	2000
Calcium(mg/L)	38.48	40.08	32.06	16.03	30.46	38.47	16.03	25.6	25.6	32	35.2	32	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.07	<0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	46.25	51.47	65.31	33.53	37.86	81.26	3.54	34.41	26.09	35.94	36.57	38.14	200	400
Nitrate(mg/L)	3.09	5.21	1.12	<0.50	4.05	<0.5	<0.5	<0.5	1.07	3.12	3.34	<0.5	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	<0.30	0.35	0.41	<0.30	<0.30	<0.30	0.40	0.61	0.54	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.07	<0.04	<0.04	0.10	<0.04	<0.04	<0.04	<0.04	0.09	0.15	0.05	0.06	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	13	3.6	<1.8	<1.8	<1.8	<1.8	6.1	1.8	<1.8	13	1.8	3.7	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)									<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table: 12.14
Area: Lingraj
Project: Lingraj OCP

Project / OCP	Lingraj OCP				Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Balunga Khamar Village Well					
Date of Sampling	18-May-2021	14-Aug-2021	15-Nov-2021	14-Feb-2022	Acceptable	Permissible
Colour(Hazen)	2	2	3	<1.0	5	15
Turbidity(NTU)	4	3	2	2	1	5
pH	7.31	7.91	7.91	7.11	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	216	108	168	396.2	200	600
Total Hardness(Ca CO ₃)(mg/L)	292	104	244	288	200	600
Iron(mg/L)	<0.1	<0.10	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	112	65.06	14	175	250	1000
Total Dissolve Solid(mg/L)	718	342	862	954	500	2000
Calcium(mg/L)	49.70	22.44	75.2	73.6	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	72.38	39.29	52.9	108.57	200	400
Nitrate(mg/L)	29.74	5.98	36.4	3.21	45	No relaxation
Fluoride(mg/L)	<0.50	0.42	<0.30	0.72	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.10	<0.2	<0.1	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	0	6	6.1	<1.8	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)			<0.001	<0.001	0.001	0.002
Selenium(mg/L)				<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.15
Area: Lingraj
Project: Lingraj OCP

Project / OCP	Lingraj OCP				Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Deulbera Village Well					
Date of Sampling	18-May-2021	14-Aug-2021	15-Nov-2021	14-Feb-2022	Acceptable	Permissible
Colour(Hazen)	1	1	1	<1.0	5	15
Turbidity(NTU)	1	3	3	1	1	5
pH	7.02	7.98	8.09	6.80	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	144	168	208	161.9	200	600
Total Hardness(Ca CO3)(mg/L)	196	208	204	192	200	600
Iron(mg/L)	<0.1	<0.10	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	40	37.46	45	16	250	1000
Total Dissolve Solid(mg/L)	362	408	308	382	500	2000
Calcium(mg/L)	44.88	54.51	68.60	41.6	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	63.62	56.43	16.27	70.86	200	400
Nitrate(mg/L)	<0.5	9.72	<0.5	1.05	45	No relaxation
Fluoride(mg/L)	<0.30	0.47	0.34	0.60	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	0.11	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.10	<0.2	<0.1	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	0	4	6	6	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)			<0.001	<0.001	0.001	0.002
Selenium(mg/L)				<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.16
Area: Lingraj
Project: Lingraj OCP

Project / OCP	Lingraj OCP				Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Talabera Village Well					
Date of Sampling	18-May-2021	14-Aug-2021	15-Nov-2021	14-Feb-2022	Acceptable	Permissible
Colour(Hazen)	1	2	2	<1.0	5	15
Turbidity(NTU)	3	4	1	1	1	5
pH	7.27	7.68	7.63	7.13	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	274	280	68	93.7	200	600
Total Hardness(CaCO ₃)(mg/L)	420	308	184	156	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	202	110.41	8	12	250	1000
Total Dissolve Solid(mg/L)	1008	744	298	212	500	2000
Calcium(mg/L)	92.98	101.00	48	32	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	129.82	64.71	77.82	39.14	200	400
Nitrate(mg/L)	<0.5	31.92	8.65	2.26	45	No relaxation
Fluoride(mg/L)	<0.3	0.65	0.41	0.45	1	1.5
Arsenic(mg/L)	<0.05	<0.05	<0.05	<0.05	0.01	0.05
Lead(mg/L)	<0.05	<0.05	<0.05	<0.05	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	0.10	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.10	<0.2	<0.1	0.5	1.0
Cadmium(mg/L)	<0.01	<0.01	<0.01	<0.01	0.003	No relaxation
MPN (Index/100 ml)	0	1.8	1.8	1.8	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0

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JOB NO.750001

Table: 12.17
Area: Kaniha
Project: Kaniha

Project / OCP	Kaniha												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Tube Well at Coal Analysis Lab													
Date of Sampling	16-Apr-2021	10-May-2021	9-Jun-2021	14-Jul-2021	12-Aug-2021	13-Sep-2021	1-Oct-2021	11-Nov-2021	13-Dec-2021	15-Jan-2022	9-Feb-2022	9-Mar-2022	Acceptable	Permissible
Colour(Hazen)	1	1	2	2	1	1	1	2	<1.0	<2.0	<1.0	1	5	15
Turbidity(NTU)	1	1	3	2	2	1	1	2	2	3	2	1	1	5
pH	5.86	6.02	7.40	7.24	8.30	7.54	7.88	8.27	7.81	7.92	7.84	8.02	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	24	32	40	380	460	60	268	268	76	462.2	460.1	37.49	200	600
Total Hardness(CaCO3)(mg/L)	72	80	160	268	304	180	188	148	352	340	348	252	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	32	36	12	35.74	37.46	10	33	27	34	35	35	53	250	1000
Total Dissolve Solid(mg/L)	138	152	280	522	636	292	562	390	570	628	646	556	500	2000
Calcium(mg/L)	22.44	24.05	40.08	52.91	62.52	40.08	28.86	35.2	68.8	70.4	65.6	22.4	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	6.54	11.59	117.48	44.27	34.86	81.54	33.65	7.56	39.13	48.6	50.57	9.57	200	400
Nitrate(mg/L)	35.42	37.62	<0.5	2.75	4.67	<0.5	1.86	<0.5	2.83	4.75	4.84	1.81	45	No relaxation
Fluoride(mg/L)	<0.30	<0.3	<0.3	0.54	0.57	0.48	0.41	<0.30	<0.30	0.64	0.69	0.79	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.95	<0.04	0.26	0.17	<0.04	<0.04	<0.04	<0.04	0.23	0.05	0.13	<0.04	5	15
Total Chromium(mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	17	14	14	11	8.2	11	9	6.1	3.6	17	1.8	2.0	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.18
Area: Kaniha
Project: Kaniha

Project / OCP	Kaniha												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Jarda Village Well Water													
Date of Sampling	16-Apr-2021	10-May-2021	9-Jun-2021	14-Jul-2021	12-Aug-2021	13-Sep-2021	1-Oct-2021	11-Nov-2021	13-Dec-2021	15-Jan-2022	9-Feb-2022	9-Mar-2022	Acceptable	Permissible
Colour(Hazen)	2	1	1	3	2	1	1	1	<1.0	<2.0	<1.0	2	5	15
Turbidity(NTU)	2	2	1	4	1	2	1	1	3	3	2	1	1	5
pH	5.62	5.82	7.64	7.22	8.02	7.64	7.30	8.25	7.65	7.54	7.41	8.12	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	28	36	48	444	152	52	48	288	444	466.5	464.3	362.1	200	600
Total Hardness(CaCO3)(mg/L)	64	76	168	352	236	56	56	280	300	356	360	308	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	60	70	12	87.37	108.44	6	6	29	140	35	16	51	250	1000
Total Dissolve Solid(mg/L)	174	190	290	654	570	98	86	440	1052	636	658	560	500	2000
Calcium(mg/L)	33.67	36.87	56.11	65.73	70.54	12.82	8.02	51.2	94.4	44.8	32	27.2	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	8.49	13.74	120.56	6.18	45.0	10.70	6.35	53.12	53.33	48.9	51.43	9	200	400
Nitrate(mg/L)	42.27	41.15	<0.5	<0.50	39.55	<0.5	<0.5	<0.5	40.38	4.69	4.75	2.17	45	No relaxation
Fluoride(mg/L)	<0.30	<0.3	<0.30	0.46	0.51	<0.30	<0.30	<0.30	<0.30	0.63	0.68	0.82	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.84	<0.04	<0.04	0.06	<0.04	<0.04	<0.04	<0.04	0.16	0.39	0.12	<0.04	5	15
Total Chromium(mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	7	7.8	7.8	7.8	7.8	<1.8	1.8	4	1.8	7	4	<1.8	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.19
Area: Hingula
Project: Hingula OCP

Project / OCP	Hingula OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office Water													
Date of Sampling	15-Apr-2021	14-May-2021	12-Jun-2021	1-Jul-2021	14-Aug-2021	14-Sep-2021	4-Oct-2021	12-Nov-2021	13-Dec-2021	15-Jan-2022	12-Feb-2022	14-Mar-2022	Acceptable	Permissible
Colour(Hazen)	1	1	1	2	2	1	3	1	<1.0	<2.0	<1.0	3	5	15
Turbidity(N TU)	2	2	3	3	2	3	2	4	1	1	1	2	1	5
pH	7.45	7.29	7.08	6.91	7.98	7.69	7.21	8.23	7.78	7.33	7.46	7.62	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	48	56	196	156	216	80	76	260	192	292.1	298.2	170.4	200	600
Total Hardness(CaCO3)(mg/L)	312	320	176	188	200	108	144	292	148	344	336	220	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	22	36	50	27.8	25.63	14	27	49	25	35	43	37	250	1000
Total Dissolve Solid(mg/L)	448	462	394	324	334	182	262	394	420	524	548	490	500	2000
Calcium(mg/L)	81.76	83.37	32.06	49.70	62.52	24.04	30.46	35.2	48.0	102.4	97.6	41.6	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	168.61	159.62	6.57	59.85	14.43	26.05	51.22	5.85	16.09	89.56	93.14	63	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	1.52	2.33	<0.5	11.95	<0.5	1.53	1.5	1.66	0.68	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	0.42	0.53	0.39	<0.30	<0.30	0.39	<0.30	1.01	0.95	0.69	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.004	0.19	0.15	<0.04	<0.04	<0.04	<0.04	0.07	<0.04	0.10	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	26	27	33	2	6	17	11	5.5	4	26	2	<1.8	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.20
Area: Hingula
Project: Hingula OCP

Project / OCP	Hingula OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Gopalprasad Village Bore Well Water													
Date of Sampling	15-Apr-2021	14-May-2021	12-Jun-2021	1-Jul-2021	14-Aug-2021	14-Sep-2021	4-Oct-2021	12-Nov-2021	13-Dec-2021	15-Jan-2022	12-Feb-2022	14-Mar-2022	Acceptable	Permissible
Colour(Hazen)	2	1	2	1	2	2	2	1	<1.0	<2.0	<1.0	2	5	15
Turbidity(NTU)	1	1	1	2	1	3	3	4	2	2	1	1	1	5
pH	7.20	7.15	7.29	7.06	8.42	6.93	7.02	8.30	7.45	6.98	6.89	8.04	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	284	272	260	292	264	20	96	368	492	540.6	532.5	340.8	200	600
Total Hardness(CaCO3)(mg/L)	220	216	220	196	172	48	124	440	560	544	536	240	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	0.16	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	44	38	42	35.74	51.26	40	35	165	314	297	81	72	250	1000
Total Dissolve Solid(mg/L)	452	438	440	388	434	170	254	1074	1396	1194	1236	566	500	2000
Calcium(mg/L)	56.11	54.51	41.68	43.29	36.87	16.032	30.46	46.4	113.6	97.6	94.4	32	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	0.10	<0.04	<0.04	<0.04	<0.04	<0.04	0.11	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	10.63	14.85	2.24	1.18	5.43	<1.0	33.51	1.99	3.19	<1	2	13.29	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	33.01	<0.5	1.29	<0.50	<0.5	<0.5	6.98	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	0.49	<0.30	0.47	<0.30	<0.30	<0.30	<0.30	0.40	0.46	0.74	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.25	<0.04	0.20	0.22	0.09	<0.04	<0.04	<0.04	0.81	0.73	0.11	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	3	3.6	3.6	3.6	3.6	<1.8	<1.8	2	1.8	3	<1.8	6.8	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.21
Area: Hingula
Project: Hingula OCP

Project / OCP	Hingula OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Kumunda Village Bore Well Water													
Date of Sampling	15-Apr-2021	14-May-2021	12-Jun-2021	1-Jul-2021	14-Aug-2021	14-Sep-2021	4-Oct-2021	13-Nov-2021	13-Dec-2021	15-Jan-2022	12-Feb-2022	14-Mar-2022	Acceptable	Permissible
Colour(Hazen)	1	1	1	1	1	1	1	2	<1.0	<2.0	<1.0	4	5	15
Turbidity(NTU)	1	2	1	1	1	4	1	2	1	2	1	2	1	5
pH	6.96	7.08	7.20	7.01	7.80	7.79	7.54	8.02	7.48	7.0	7.05	8.11	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	228	220	264	296	360	432	100	348	312	531.9	524	349.3	200	600
Total Hardness(CaCO3)(mg/L)	156	148	208	208	408	292	144	568	316	540	548	224	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	64	68	42	33.76	88.72	91	29	51	147	297	85	70	250	1000
Total Dissolve Solid(mg/L)	434	448	432	392	762	688	282	1094	822	1198	1242	570	500	2000
Calcium(mg/L)	32.06	28.86	44.89	46.49	123.45	62.52	36.87	56	69	92.8	86.4	32	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	8.34	11.46	3.36	1.47	57.43	10.42	48.12	2.14	3.48	1.32	2.57	15.14	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	38.79	<0.5	10.17	<0.5	<0.50	<0.5	<0.5	8.95	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	0.46	<0.30	0.69	0.67	<0.30	<0.30	<0.30	0.40	0.49	0.78	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.05	<0.04	0.16	0.25	<0.04	<0.04	<0.04	<0.04	0.38	0.60	0.06	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	1.8	1.8	1.8	14	14	<1.8	<1.8	11	6.1	14	3.7	14	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.22
Area: Hingula
Project: Balaram OCP

Project / OCP	Balaram OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Danara Village Borewell Water													
Date of Sampling	15-Apr-2021	17-May-2021	12-Jun-2021	13-Jul-2021	14-Aug-2021	14-Sep-2021	4-Oct-2021	13-Nov-2021	13-Dec-2021	15-Jan-2022	12-Feb-2022	12-Mar-2022	Acceptable	Permissible
Colour(Hazen)	2	1	1	2	1	3	2	1	<1.0	<2.0	<1.0	3	5	15
Turbidity(NTU)	3	1	3	3	2	2	2	1	1	1	1	1	1	5
pH	7.55	7.40	7.53	7.02	6.47	8.13	7.32	7.82	7.50	5.90	6.20	7.73	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	292	276	184	284	20	444	44	60	396	65.4	68.1	72.4	200	600
Total Hardness(CaCO3)(mg/L)	168	176	208	292	56	260	180	72	320	88	80	96	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	44	48	30	65.53	29.57	38	10	10	79	27	39	20	250	1000
Total Dissolve Solid(mg/L)	454	472	428	542	152	610	294	134	840	162	194	196	500	2000
Calcium(mg/L)	38.48	40.08	59.32	76.95	17.63	67.33	46.49	14.4	67.2	30.4	27.2	32	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.15	1.21	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	5.32	13.41	76.78	82.94	5.71	27.60	90.04	14.28	8.44	11.05	11.71	30.57	200	400
Nitrate(mg/L)	<0.5	<0.5	0.70	11.35	33.29	1.32	<0.5	1.18	<0.50	0.84	1.09	4.64	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.80	<0.30	0.61	<0.30	<0.30	<0.30	0.32	<0.3	0.47	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.31	<0.04	0.07	0.13	0.10	<0.04	<0.04	0.08	0.40	0.16	0.09	<0.04	5	15
Total Chromium(mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	22	21	17	<1.8	6.1	11	9	4	2	<1.8	<1.8	9.3	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.23
Area: Hingula
Project: Balaram OCP

Project / OCP	Balaram OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Balaram Colony Tap Water													
Date of Sampling	15-Apr-2021	18-May-2021	12-Jun-2021	13-Jul-2021	14-Aug-2021	14-Sep-2021	4-Oct-2021	13-Nov-2021	13-Dec-2021	15-Jan-2022	12-Feb-2022	12-Mar-2022	Acceptable	Permissible
Colour(Hazen)	3	1	2	1	2	1	3	1	<1.0	<2.0	<1.0	5	5	15
Turbidity(NTU)	1	1	1	1	3	3	1	4	2	2	1	1	1	5
pH	7.73	7.59	7.50	7.29	7.78	7.87	7.24	8.33	7.75	7.49	7.42	7.91	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	64	72	44	68	68	308	64	356	60	69.8	72.4	213	200	600
Total Hardness(CaCO3)(mg/L)	376	380	268	376	176	292	108	204	216	316	320	136	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	26	34	20	17.87	11.83	91	14	45	11	14	10	27	250	1000
Total Dissolve Solid(mg/L)	576	588	420	530	292	526	178	460	410	472	494	332	500	2000
Calcium(mg/L)	88.18	86.57	75.35	109.02	44.89	107.41	19.24	4.0	52.8	89.6	88	28.2	75	200
Copper(mg/L)	<0.3	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.12	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	176.81	164.58	172.17	192.80	80.43	47.88	31.14	1.14	88.55	262.8	268.58	17.29	200	400
Nitrate(mg/L)	2.36	3.47	<0.50	<0.50	<0.50	<0.5	1.56	<0.5	<0.50	1.87	2.09	5.06	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	1.28	0.42	0.57	<0.30	0.41	<0.30	0.97	0.89	0.63	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.4	<0.04	0.04	0.05	0.30	<0.04	<0.04	<0.04	0.06	0.08	0.11	<0.04	5	15
Total Chromium(mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	12	14	14	2	2	9	9	1.8	<1.8	2	2	4.5	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.24
Area: Hingula
Project: Balaram OCP

Project / OCP	Balaram OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Nakeipasi Village Bore Well Water													
Date of Sampling	15-Apr-2021	15-May-2021	12-Jun-2021	13-Jul-2021	14-Aug-2021	14-Sep-2021	4-Oct-2021	13-Nov-2021	14-Dec-2021	15-Jan-2022	12-Feb-2022	12-Mar-2022	Acceptable	Permissible
Colour(Hazen)	1	1	1	1	1	2	2	2	<1.0	<2.0	<1.0	4	5	15
Turbidity(NTU)	2	2	2	2	1	2	1	3	1	2	1	1	1	5
pH	6.64	6.87	7.98	6.36	7.75	7.55	7.27	8.07	7.64	5.96	6.28	7.45	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	20	28	240	264	60	60	60	360	408	61	63.9	42.6	200	600
Total Hardness(CaCO3)(mg/L)	64	68	220	432	60	180	84	372	320	128	120	88	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	32	30	32	144.96	11.83	40	8	43	75	25	6	18	250	1000
Total Dissolve Solid(mg/L)	138	154	520	802	112	290	128	560	857	162	188	158	500	2000
Calcium(mg/L)	22.44	20.84	49.70	105.81	16.03	41.68	16.03	62.4	65.6	25.6	27.2	19.2	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.05	0.25	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	10.64	14.25	43.08	63.97	1.86	86.19	19.04	25.98	8.26	11.64	11.86	26.57	200	400
Nitrate(mg/L)	34.34	31.68	2.14	39.78	3.04	<0.5	<0.5	2.8	<0.50	0.95	1.22	1.29	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	0.48	0.35	<0.30	0.45	<0.30	<0.30	<0.30	<0.3	0.33	0.37	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.71	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.34	0.23	<0.04	0.04	5	15
Total Chromium(mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	3.7	3.7	3.5	6	6	<1.8	<1.8	2	1.8	6	6	2.0	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.25
Area: Talcher
Project: Talcher U/G

Project / OCP	Talcher U/G												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Tap-Water, GM Office													
Date of Sampling	14-Apr-2021	17-May-2021	14-Jun-2021	1-Jul-2021	12-Aug-2021	13-Sep-2021	1-Oct-2021	15-Nov-2021	15-Dec-2021	14/Jan/2022	14-Feb-2022	14-Mar-2022	Acceptable	Permissible
Colour(Hazen)	2	1	2	1	1	1	2	2	<1.0	<2.0	<1.0	1	5	15
Turbidity(N TU)	2	3	1	4	3	3	1	3	2	1	2	1	1	5
pH	7.98	7.79	7.56	6.96	7.73	7.64	7.54	5.92	7.88	7.41	7.53	7.62	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	96	104	56	36	72	56	92	12	92	69.8	72.4	68.2	200	600
Total Hardness(CaCO3)(mg/L)	152	160	156	72	76	64	136	56	160	24	32	92	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	28	34	14	9.93	11.83	27	27	43	17	6	8	10	250	1000
Total Dissolve Solid(mg/L)	274	298	288	108	140	102	274	108	382	118	132	152	500	2000
Calcium(mg/L)	36.87	38.48	43.29	17.64	19.24	14.42	38.48	11.2	35.2	6.4	8	24	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	57.36	52.46	119.16	33.82	16.57	10.70	43.69	33.98	50.73	9.57	10.14	25.00	200	400
Nitrate(mg/L)	1.81	2.57	<0.5	0.89	<0.50	<0.5	9.27	<0.5	<0.50	0.84	1.05	0.85	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.30	<0.30	0.21	0.32	<0.30	<0.30	0.37	0.38	0.35	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.12	<0.04	<0.04	0.15	<0.04	<0.04	<0.04	0.08	0.19	<0.04	0.09	<0.04	5	15
Total Chromium(mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	12	12	12	4	4	6	4	2	1.8	4	2	15	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.26
Area: Talcher
Project: Talcher U/G

Project / OCP	Talcher U/G												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Canteen Tap-Water, Talcher Colliery													
Date of Sampling	14-Apr-2021	17-May-2021	14-Mar-2021	1-Jul-2021	12-Aug-2021	13-Sep-2021	1-Oct-2021	15-Nov-2021	15-Dec-2021	14-Jan-2022	14-Feb-2022	14-Mar-2022	Acceptable	Permissible
Colour(Hazen)	1	1	3	2	1	1	1	3	<1.0	<2.0	<1.0	3	5	15
Turbidity(NTU)	1	1	2	3	2	2	2	2	1	1	2	1	1	5
pH	7.91	7.74	7.40	6.93	7.92	7.75	7.22	7.39	7.70	7.36	7.39	7.71	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	92	100	32	40	108	84	32	28	92	56.7	68.1	76.7	200	600
Total Hardness(CaCO3)(mg/L)	156	164	92	60	124	152	100	60	144	64	60	104	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	30	42	8	45.67	15.77	36	10	43	19	6	16	14	250	1000
Total Dissolve Solid(mg/L)	278	306	106	112	224	302	158	116	421	114	138	164	500	2000
Calcium(mg/L)	38.48	36.87	12.83	14.43	32.06	38.47	22.44	14.4	36.8	17.6	16	25.6	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	56.53	64.82	37.34	33.24	23.86	52.67	44.87	29.98	99.13	9.72	10.71	24.14	200	400
Nitrate(mg/L)	1.68	3.26	<0.5	0.97	<0.50	6.78	<0.5	<0.5	<0.50	0.87	1.08	1.22	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	<0.30	0.36	0.39	<0.30	0.32	<0.30	0.32	0.42	0.39	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.05	<0.04	<0.04	0.08	<0.04	<0.04	<0.04	<0.04	0.07	<0.04	0.04	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	6.1	6.1	6.1	5.5	5.5	1.8	<1.8	4	4	5.5	5.5	11	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.27
Area: Talcher
Project: Talcher U/G

Project / OCP	Talcher U/G												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Canteen Tap-Water, Talcher Colliery													
Date of Sampling	14-Apr-2021	17-May-2021	14-Jun-2021	1-Jul-2021	12-Aug-2021	13-Sep-2021	1-Oct-2021	15-Nov-2021	15-Dec-2021	14-Jan-2022	14-Feb-2022	14-Mar-2022	Acceptable	Permissible
Colour(Hazen)	1	1	3	2	1	1	1	3	<1.0	<2.0	<1.0	3	5	15
Turbidity(N TU)	1	1	2	3	2	2	2	2	1	1	2	1	1	5
pH	7.91	7.74	7.40	6.93	7.92	7.75	7.22	7.39	7.70	7.36	7.39	7.71	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	92	100	32	40	108	84	32	28	92	56.7	68.1	76.7	200	600
Total Hardness(Ca CO3)(mg/L)	156	164	92	60	124	152	100	60	144	64	60	104	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	30	42	8	45.67	15.77	36	10	43	19	6	16	14	250	1000
Total Dissolve Solid(mg/L)	278	306	106	112	224	302	158	116	421	114	138	164	500	2000
Calcium(mg/L)	38.48	36.87	12.83	14.43	32.06	38.47	22.44	14.4	36.8	17.6	16	25.6	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	56.53	64.82	37.34	33.24	23.86	52.67	44.87	29.98	99.13	9.72	10.71	24.14	200	400
Nitrate(mg/L)	1.68	3.26	<0.5	0.97	<0.50	6.78	<0.5	<0.5	<0.50	0.87	1.08	1.22	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	<0.30	0.36	0.39	<0.30	0.32	<0.30	0.32	0.42	0.39	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.05	<0.04	<0.04	0.08	<0.04	<0.04	<0.04	<0.04	0.07	<0.04	0.04	<0.04	5	15
Total Chromium(mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	6.1	6.1	6.1	5.5	5.5	1.8	<1.8	4	4	5.5	5.5	11	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.28
Area: Talcher
Project: Nandira U/G

Project / OCP	Nandira U/G												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Canteen Tap-Water, Nandira Colliery													
Date of Sampling	14-Apr-2021	15-May-2021	14-Jun-2021	1-Jul-2021	13-Aug-2021	14-Sep-2021	1-Oct-2021	15-Nov-2021	15-Dec-2021	14-Jan-2022	12-Feb-2022	12-Mar-2022	Acceptable	Permissible
Colour(Hazen)	2	2	1	1	1	2	1	1	<1.0	<2.0	<1.0	2	5	15
Turbidity(N TU)	2	2	1	2	2	1	3	1	3	1	1	1	1	5
pH	7.71	7.60	7.35	7.21	8.01	7.38	7.51	7.73	7.33	6.85	6.97	7.62	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	48	56	28	60	112	84	88	84	72	56.7	59.6	59.6	200	600
Total Hardness(CaCO3)(mg/L)	156	164	96	172	160	124	176	64	176	164	160	192	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	20	28	8	11.91	21.69	40	29	17	13	12	14	12	250	1000
Total Dissolve Solid(mg/L)	288	318	104	278	288	214	310	190	398	282	312	290	500	2000
Calcium(mg/L)	44.89	46.49	17.64	43.29	36.87	30.46	41.68	25.6	43.2	44.8	40	48	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	105.70	101.74	41.82	106.18	53.14	31.83	57.12	13.56	101.89	123.7	125	92	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	15.39	<0.5	<0.50	0.55	0.66	1.86	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.35	0.39	<0.30	<0.30	<0.30	<0.30	0.39	0.45	0.47	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	0.07	0.04	0.25	<0.04	<0.04	0.07	0.40	0.25	0.10	<0.04	5	15
Total Chromium(mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	4	3.6	1.8	6.8	6.8	<1.8	<1.8	6.1	4	4	5.5	3.6	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.29
Area: Talcher
Project: Nandira U/G

Project / OCP	Nandira U/G												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Pit Top Tap Water. Nandira Colliery													
Date of Sampling	14-Apr-2021	15-May-2021	14-Jun-2021	1-Jul-2021	13-Aug-2021	14-Sep-2021	1-Oct-2021	15-Nov-2021	15-Dec-2021	14-Jan-2022	12-Feb-2022	12-Mar-2022	Acceptable	Permissible
Colour(Hazen)	2	2	2	1	1	1	1	2	<1.0	<2.0	<1.0	4	5	15
Turbidity(N TU)	1	4	2	2	4	2	2	2	2	1	1	2	1	5
pH	7.55	7.42	7.46	7.25	8.10	6.93	7.45	7.56	7.30	6.95	7.09	7.59	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	48	56	52	64	124	32	72	72	36	109	63.9	55.4	200	600
Total Hardness(Ca CO3)(mg/L)	192	196	192	172	104	180	216	180	172	176	152	188	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	18	22	14	13.9	23.66	34	19	14	11	12	18	14	250	1000
Total Dissolve Solid(mg/L)	294	316	290	284	216	288	336	308	278	284	318	288	500	2000
Calcium(mg/L)	41.68	40.08	43.29	41.68	19.24	41.68	46.49	43.2	44.8	44.8	48	43.2	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.05	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	104.58	110.53	124.34	119.27	2.57	73.24	89.74	75.39	10.29	125.9	127.14	89.72	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.50	<0.50	<0.5	3.15	<0.5	<0.50	0.72	0.69	1.92	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.34	0.40	0.35	<0.30	<0.30	<0.30	0.37	0.40	0.50	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.59	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.29	0.18	0.12	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.01	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	4	5.6	5.6	4	4	2	1.8	3.6	2	4	1.8	2.0	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.30
Area: Talcher
Project: Deulbera U/G

Project / OCP	Deulbera U/G												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Deulbera Manager Office Tap Water													
Date of Sampling	14-Apr-2021	13-May-2021	14-Jun-2021	1-Jul-2021	12-Aug-2021	14-Sep-2021	1-Oct-2021	15-Nov-2021	15-Dec-2021	14-Jan-2022	14-Feb-2022	14-Mar-2022	Acceptable	Permissible
Colour(Hazen)	1	1	1	2	2	2	2	2	<1.0	<2.0	<1.0	3	5	15
Turbidity(N TU)	1	2	2	4	2	1	1	3	3	1	1	1	1	5
pH	8.01	8.06	7.77	6.78	7.92	7.02	7.83	8.03	7.73	7.50	7.38	7.78	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	100	108	88	168	84	340	152	352	92	78.5	115	89.5	200	600
Total Hardness(Ca CO3)(mg/L)	164	168	156	212	124	348	116	100	88	168	164	116	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	30	32	20	13.9	15.77	38	6	27	8	17	32	14	250	1000
Total Dissolve Solid(mg/L)	274	294	250	372	220	750	224	546	291	262	286	192	500	2000
Calcium(mg/L)	35.27	33.67	43.29	51.30	28.86	113.82	25.65	22.4	28.8	32	33.6	33.6	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	54.58	51.26	70.91	83.53	39.43	61.97	4.58	20.99	69.28	55.08	57.43	26.14	200	400
Nitrate(mg/L)	4.06	5.47	1.04	3.38	1.68	14.85	<0.5	<0.5	<0.50	4.39	4.37	2.74	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.37	0.41	0.67	<0.30	0.35	<0.30	0.33	0.38	0.46	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.09	<0.04	0.07	<0.04	<0.04	<0.04	<0.04	0.17	<0.04	0.06	0.11	0.06	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	8.1	8.1	11	2	2	11	9	1.8	1.8	8.1	2	13	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0

Table: 12.31
Area: Talcher
Project: Handhidhua Colliery

Project / OCP	Handhidhua Colliery												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Pit Top Tap Water													
Date of Sampling	14-Apr-2021	3-May-2021	14-Jun-2021	1-Jul-2021	12-Aug-2021	13-Sep-2021	1-Oct-2021	15-Nov-2021	15-Dec-2021	14-Jan-2022	14-Feb-2022	14-Mar-2022	Acceptable	Permissible
Colour(Hazen)	2	2	3	2	2	1	2	3	<1.0	<2.0	<1.0	5	5	15
Turbidity(N TU)	2	3	3	2	3	3	2	2	2	1	1	1	1	5
pH	7.93	7.86	7.47	6.87	7.73	6.70	7.10	7.76	7.29	7.22	7.36	7.72	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	76	82	36	112	28	456	24	92	68	91.6	80.9	76.7	200	600
Total Hardness(Ca CO3)(mg/L)	152	160	156	280	52	392	436	90	160	176	180	100	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	36	40	10	131.06	5.91	36	6	14	25	27	10	10	250	1000
Total Dissolve Solid(mg/L)	266	284	262	496	84	680	556	324	299	334	358	154	500	2000
Calcium(mg/L)	35.27	36.87	32.06	101.00	11.22	125.04	94.59	22.4	40.0	43.2	40	27.2	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	48.19	42.61	125.17	62.06	10.28	36.19	188.63	50.40	2.32	113.72	116	17.57	200	400
Nitrate(mg/L)	15.42	17.62	<0.5	3.01	0.74	<0.5	<0.5	1.17	9.95	12.09	12.58	1.48	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.39	<0.30	0.62	0.38	<0.30	<0.30	0.37	0.44	0.39	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	0.04	0.05	<0.04	<0.04	<0.04	<0.04	0.07	<0.04	0.11	<0.04	5	15
Total Chromium(mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.01	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<0.2	0.5	1.0
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	5.5	5.5	5.5	4	4	2	1.8	4	3.6	5.5	4	3.7	—	—
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0



PIEZOMETER DEPTH ANALYSIS

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JOB NO.750001

TABLE NO 13 FOR PIEZOMETER QUANTITY DATA

Table:13.1

Area	Project	Name of the Station	Date of Sampling	Below Ground Levels (meter)
Jagannath	Jagannath OCP	Piezometer no MTP 04; Inside central nursery (beside golf hut), Jagannath area	12-May-21	4.5
	Jagannath OCP		07-Aug-21	3.22
	Jagannath OCP		27-Nov-21	3.31
	Jagannath OCP		31-Jan-22	3.75
	Jagannath OCP		12-May-21	4.5
	Ananta OCP	Piezometer no MTP 05; Outside Ananta OCP canteen	24-May-21	27.04
	Ananta OCP		07-Aug-21	25.32
	Ananta OCP		27-Nov-21	24.6
	Ananta OCP		31-Jan-22	25.44
Bharatpur	Bharatpur OCP	Piezometer no MTP 09; Inside the premises of Joragarhia Panchayat high school	25-May-21	5.93
	Bharatpur OCP		30-Nov-21	4.75
	Bharatpur OCP		24-Jan-22	4.75
	Bharatpur OCP	Piezometer no MTP 10; Inside the premises of Danara high school (reported)	24-May-21	Depth could not be measured as casing of piezometer is jammed
	Bharatpur OCP		07-Aug-21	14.46
	Bharatpur OCP		30-Nov-21	13.8
	Bharatpur OCP		29-Jan-22	14.43
	Chhendipada OCP	Piezometer no MTP 21; Between Chhendipada weigh bridge and coal stock yard	11-May-21	8.9
	Chhendipada OCP		09-Aug-21	4.82
	Chhendipada OCP		29-Nov-21	4.28
	Chhendipada OCP		25-Jan-22	4.29
	Chhendipada OCP	Piezometer no MTP 22 ; Inside the premises of the abundant office of Junior Engineer (MI Section,	11-May-21	Not Accesible, Gate Locked
	Chhendipada OCP		09-Aug-21	
	Chhendipada OCP		29-Nov-21	
	Chhendipada OCP		25-Jan-22	
	Chhendipada OCP	Piezometer no MTP 23; Inside the premises of Vetenary hospital, Chhendipada	11-May-21	9.43
	Chhendipada OCP		09-Aug-21	6.57
	Chhendipada OCP		29-Nov-21	4.71
	Chhendipada OCP		25-Jan-22	4.43
Hingula	Hingula OCP	Piezometer no MTP 14; Inside the premises of Pirakhamam village primary school	24-May-21	9.55
	Hingula OCP		27-Aug-21	10.15
	Hingula OCP		30-Nov-21	12.53
	Hingula OCP		27-Jan-22	12.54

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JOB NO.750001

	Hingula OCP	Piezometer no MTP 15; Beside Sujan Pradhan's house in Chottaberani village, near nalla.	24-May-21	7.05
	Hingula OCP		27-Aug-21	5.35
	Hingula OCP		30-Nov-21	6.65
	Hingula OCP		27-Jan-22	6.85
	Hingula OCP	Piezometer no MTP 16; Backside of Hingula Mandir VIP guest house	11-May-21	7.7
	Hingula OCP		09-Aug-21	8.02
	Hingula OCP		29-Nov-21	10.25
	Hingula OCP		25-Jan-22	11.15
	Balram OCP	Piezometer no MTP 10; Inside the premises of Danara high school	24-May-21	Depth could not be measured as casing of piezometer is jammed
	Balram OCP		07-Aug-21	14.46
	Balram OCP		30-Nov-21	13.8
	Balram OCP		29-Jan-22	14.43
	Balram OCP	Piezometer no MTP 12; In Betianalli village, opposite to Sindhu deori's house	24-May-21	7.54
	Balram OCP		07-Aug-21	6.38
	Balram OCP		30-Nov-21	6.18
	Balram OCP		27-Jan-22	6.67
	Balram OCP	Piezometer no MTP 13 ; Inside the premises of Ambapal Natarha high school	24-May-21	13.03
	Balram OCP		27-Aug-21	Depth could not be measured as casing of piezometer is jammed.
	Balram OCP		30-Nov-21	
	Balram OCP		27-Jan-22	
	Balram OCP	Piezometer no MTP 17; Inside the premises of market building (through gramian rojgar yojna), Kandhaberani village	13-May-21	Could not be accessed because of pump fitted by villagers.
	Balram OCP		07-Aug-21	
	Balram OCP		29-Nov-21	
	Balram OCP		27-Jan-22	
Lingaraj	Lingaraj OCP7	Piezometer no MTP 01; Inside the premises of Mandapal hospital	13-May-21	12.58
	Lingaraj OCP6		07-Aug-21	12.12
	Lingaraj OCP5		27-Nov-21	12.02
	Lingaraj OCP4	Piezometer no MTP 04; Inside central nursery (beside golf hut), Jagannath area	27-Nov-21	3.31
	Lingaraj OCP3	Piezometer no MTP 06 ; Inside the premises of Kandhal high school	13-May-21	Depth could not be measured as casing of piezometer jammed.
	Lingaraj OCP2		07-Aug-21	
	Lingaraj OCP1		27-Nov-21	
	Lingaraj OCP0		29-Jan-22	
	Lingaraj OCP1	Piezometer no MTP 01; Inside the premises of Mandapal hospital	29-Jan-22	12.23
	Lingaraj OCP1	Piezometer no MTP 04; Inside central nursery (beside golf hut), Jagannath area	31-Jan-22	3.75
Kaniha	Kaniha OCP	Piezometer no MTP 18; Inside the premisses of Chellia Prathamiki school	10-May-21	8.93
	Kaniha OCP		11-Aug-21	8.26
	Kaniha OCP		25-Nov-21	5.81
	Kaniha OCP		31-Jan-22	6.54
	Kaniha OCP	Piezometer no MTP 19; Outside Golaghar sahi primary school, Bijigol (school constructed by NTPC)	10-May-21	5.15
	Kaniha OCP		11-Aug-21	3.18
	Kaniha OCP		25-Nov-21	3.95
	Kaniha OCP		31-Jan-22	4.12
	Kaniha OCP	Piezometer no MTP 20; Inside the premises of Kansamunda village old site office, MCL	10-May-21	37.67
	Kaniha OCP		11-Aug-21	13.81
	Kaniha OCP		25-Nov-21	9.76

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	Kaniha OCP		31-Jan-22	14.33
Talcher	Handhidhua Colliery	Piezometer no MTP 03; Near Handidua level crossing	13-May-21	Site in accessible
	Handhidhua Colliery		07-Aug-21	
	Handhidhua Colliery		27-Nov-21	Site Damaged
	Handhidhua Colliery		31-Jan-22	
	Nandira Colliery	Piezometer no MTP 11; Inside the premises of Hingula area office	24-May-21	8.15
	Nandira Colliery		07-Aug-21	8.15
	Nandira Colliery		30-Nov-21	8.09
	Nandira Colliery		27-Jan-22	8.45



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HEAVY METALS

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JOB NO.750001

TABLE 14 FOR HEAVY METAL QUANTITY DATA

Table:14.1

Area: Jagannath

All values are in $\mu\text{g}/\text{m}^3$

Project	Jagannath OCP			
Monitoring Station	CWS Colony, Meeti			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m ³)	(ng/m ³)
05-Apr-21	4.01	<0.1	<1.0	<1.0
06-Apr-21	4.12	<0.1	<1.0	<1.0
12-Apr-21	4.16	<0.1	<1.0	<1.0
13-Apr-21	3.98	<0.1	<1.0	<1.0
19-Apr-21	2.79	<0.1	<1.0	<1.0
20-Apr-21	2.74	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.2

Area: Jagannath

All values are in $\mu\text{g}/\text{m}^3$

Project	Jagannath OCP			
Monitoring Station	CWS Colony, Meeti			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m ³)	(ng/m ³)
10-May-21	3.38	<0.1	<1.0	<1.0
11-May-21	3.21	<0.1	<1.0	<1.0
17-May/21	2.86	<0.1	<1.0	<1.0
18-May/21	2.71	<0.1	<1.0	<1.0
24-May/21	2.66	<0.1	<1.0	<1.0
25-May/21	2.58	<0.1	<1.0	<1.0
31-May/21	2.71	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.3
Area: Talcher
All values are in $\mu\text{g}/\text{m}^3$

Project	Jagannath OCP			
Monitoring Station	CWS Colony, Meeti			
Date of sampling	Ozone (O_3) ($\mu\text{g}/\text{m}^3$)	Lead (Pb) ($\mu\text{g}/\text{m}^3$)	Arsenic (As) (ng/m^3)	Nickel (Ni) (ng/m^3)
01-Jun-21	3.52	<0.1	<1.0	<1.0
07-Jun-21	3.61	<0.1	<1.0	<1.0
08-Jun-21	3.74	<0.1	<1.0	<1.0
14-Jun-21	3.61	<0.1	<1.0	<1.0
15-Jun-21	2.81	<0.1	<1.0	<1.0
22-Jun-21	2.74	<0.1	<1.0	<1.0
23-Jun-21	2.65	<0.1	<1.0	<1.0
28-Jun-21	2.59	<0.1	<1.0	<1.0
29-Jun-21	2.70	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.4
Area: Jagannath

Project	Jagannath OCP				
Monitoring Station	CWS Colony, Meeti				
Date of sampling	Ammonia (NH_3) ($\mu\text{g}/\text{m}^3$)	Ozone (O_3) ($\mu\text{g}/\text{m}^3$)	Lead (Pb) ($\mu\text{g}/\text{m}^3$)	Arsenic (As) (ng/m^3)	Nickel (Ni) (ng/m^3)
05-Jul-21	<20.0	4.78	<0.1	<1.0	<1.0
06-Jul-21	<20.0	6.21	<0.1	<1.0	<1.0
12-Jul-21	<20.0	5.23	<0.1	<1.0	<1.0
13-Jul-21	<20.0	6.23	<0.1	<1.0	<1.0
19-Jul-21	<20.0	3.96	<0.1	<1.0	<1.0
20-Jul-21	<20.0	4.36	<0.1	<1.0	<1.0
26-Jul-21	<20.0	5.15	<0.1	<1.0	<1.0
27-Jul-21	<20.0	6.23	<0.1	<1.0	<1.0
Standard	400 (24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.5
Area: Jagannath

Project	Jagannath OCP				
Monitoring Station	CWS Colony, Meeti				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Aug-21	<20.0	5.83	<0.1	<1.0	<1.0
03-Aug-21	<20.0	4.96	<0.1	<1.0	<1.0
09-Aug-21	<20.0	5.43	<0.1	<1.0	<1.0
10-Aug-21	<20.0	6.21	<0.1	<1.0	<1.0
16-Aug-21	<20.0	3.23	<0.1	<1.0	<1.0
17-Aug-21	<20.0	4.01	<0.1	<1.0	<1.0
23-Aug-21	<20.0	4.83	<0.1	<1.0	<1.0
24-Aug-21	<20.0	3.76	<0.1	<1.0	<1.0
30-Aug-21	<20.0	3.66	<0.1	<1.0	<1.0
31-Aug-21	<20.0	4.42	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.6
Area: Jagannath

Project	Jagannath OCP				
Monitoring Station	CWS Colony, Meeti				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Sep-2021	<20.0	4.65	<0.1	<1.0	<1.0
07-Sep-2021	<20.0	5.12	<0.1	<1.0	<1.0
13-Sep-2021	<20.0	4.07	<0.1	<1.0	<1.0
14-Sep-2021	<20.0	5.23	<0.1	<1.0	<1.0
20-Sep-2021	<20.0	5.57	<0.1	<1.0	<1.0
21-Sep-2021	<20.0	4.63	<0.1	<1.0	<1.0
27-Sep-2021	<20.0	3.98	<0.1	<1.0	<1.0
28-Sep-2021	<20.0	3.63	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.7
Area: Jagannath

Project	Jagannath OCP				
Monitoring Station	CWS Colony, Meeti				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Oct-2021	<20.0	4.73	<0.1	<1.0	<1.0
05-Oct-2021	<20.0	3.56	<0.1	<1.0	<1.0
11-Oct-2021	<20.0	5.05	<0.1	<1.0	<1.0
12-Oct-2021	<20.0	6.08	<0.1	<1.0	<1.0
19-Oct-2021	<20.0	4.15	<0.1	<1.0	<1.0
20-Oct-2021	<20.0	4.42	<0.1	<1.0	<1.0
25-Oct-2021	<20.0	3.88	<0.1	<1.0	<1.0
26-Oct-2021	<20.0	5.62	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.8
Area: Jagannath

Project	Jagannath OCP				
Monitoring Station	CWS Colony, Meeti				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Nov-2021	<20.0	7.18	<0.1	<1.0	<1.0
02-Nov-2021	<20.0	4.83	<0.1	<1.0	<1.0
08-Nov-2021	<20.0	3.96	<0.1	<1.0	<1.0
09-Nov-2021	<20.0	4.25	<0.1	<1.0	<1.0
16-Nov-2021	<20.0	4.82	<0.1	<1.0	<1.0
17-Nov-2021	<20.0	6.72	<0.1	<1.0	<1.0
22-Nov-2021	<20.0	7.53	<0.1	<1.0	<1.0
23-Nov-2021	<20.0	3.89	<0.1	<1.0	<1.0
29-Nov-2021	<20.0	4.12	<0.1	<1.0	<1.0
30-Nov-2021	<20.0	3.84	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.9

Area: Jagannath

Project	Jagannath OCP				
Monitoring Station	CWS Colony, Meeti				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Dec-2021	<20.0	7.36	<0.1	<1.0	<1.0
08-Dec-2021	<20.0	5.21	<0.1	<1.0	<1.0
13-Dec-2021	<20.0	4.26	<0.1	<1.0	<1.0
14-Dec-2021	<20.0	5.23	<0.1	<1.0	<1.0
21-Dec-2021	<20.0	4.82	<0.1	<1.0	<1.0
22-Dec-2021	<20.0	6.71	<0.1	<1.0	<1.0
27-Dec-2021	<20.0	6.43	<0.1	<1.0	<1.0
28-Dec-2021	<20.0	4.86	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.10
Area: Jagannath

Project	Jagannath OCP				
Monitoring Station	CWS Colony, Meeti				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Jan-2022	<20.0	6.15	<0.1	<1.0	<1.0
06-Jan-2022	<20.0	7.18	<0.1	<1.0	<1.0
11-Jan-2022	<20.0	4.72	<0.1	<1.0	<1.0
12-Jan-2022	<20.0	3.91	<0.1	<1.0	<1.0
19-Jan-2022	<20.0	4.63	<0.1	<1.0	<1.0
20-Jan-2022	<20.0	7.22	<0.1	<1.0	<1.0
24-Jan-2022	<20.0	5.15	<0.1	<1.0	<1.0
25-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.11
Area: Jagannath

Project	Jagannath OCP				
Monitoring Station	CWS Colony, Meeti				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
02-Feb-2022	<20.0	7.23	<0.1	<1.0	<1.0
03-Feb-2022	<20.0	4.89	<0.1	<1.0	<1.0
07-Feb-2022	<20.0	5.02	<0.1	<1.0	<1.0
08-Feb-2022	<20.0	6.34	<0.1	<1.0	<1.0
16-Feb-2022	<20.0	4.62	<0.1	<1.0	<1.0
17-Feb-2022	<20.0	5.26	<0.1	<1.0	<1.0
21-Feb-2022	<20.0	4.63	<0.1	<1.0	<1.0
22-Feb-2022	<20.0	5.12	<0.1	<1.0	<1.0
28-Feb-2022	<20.0	6.06	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.12
Area: Jagannath

Project	Jagannath OCP				
Monitoring Station	CWS Colony, Meeti				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
01-Mar-2022	<20.0	4.62	<0.1	<1.0	<1.0
07-Mar-2022	<20.0	5.12	<0.1	<1.0	<1.0
08-Mar-2022	<20.0	6.23	<0.1	<1.0	<1.0
15-Mar-2022	<20.0	4.83	<0.1	<1.0	<1.0
16-Mar-2022	<20.0	6.07	<0.1	<1.0	<1.0
21-Mar-2022	<20.0	6.01	<0.1	<1.0	<1.0
22-Mar-2022	<20.0	7.23	<0.1	<1.0	<1.0
28-Mar-2022	<20.0	6.22	<0.1	<1.0	<1.0
29-Mar-2022	<20.0	4.91	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.13

Area: Jagannath

Project	Jagannath OCP				
Monitoring Station	Near NBVL Park				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
07-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
21-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)		-	-

Table: 14.14

Area: Jagannath

Project	Jagannath OCP				
Monitoring Station	Near MDTP				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
07-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
21-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	

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Table: 14.15
Area: Jagannath

Project	Ananta OCP			
Monitoring Station	Guthasahi Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
09-Apr-21	2.98	<0.1	<1.0	<1.0
10-Apr-21	2.88	<0.1	<1.0	<1.0
16-Apr-21	2.81	<0.1	<1.0	<1.0
17-Apr-21	2.79	<0.1	<1.0	<1.0
22-Apr-21	2.89	<0.1	<1.0	<1.0
24-Apr-21	2.83	<0.1	<1.0	<1.0
30-Apr-21	2.86	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.16
Area: Jagannath

Project	Ananta OCP			
Monitoring Station	Guthasahi Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
14-May-21	2.56	<0.1	<1.0	<1.0
15-May-21	2.48	<0.1	<1.0	<1.0
21-May/21	4.12	<0.1	<1.0	<1.0
22-May/21	4.01	<0.1	<1.0	<1.0
28-May/21	4.32	<0.1	<1.0	<1.0
29-May/21	4.18	<0.1	<1.0	<1.0
21-May/21	4.12	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.17
Area: Jagannath

Project	Ananta OCP			
Monitoring Station	Guthasahi Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Jun-21	4.01	<0.1	<1.0	<1.0
05-Jun-21	4.12	<0.1	<1.0	<1.0
11-Jun-21	4.23	<0.1	<1.0	<1.0
12-Jun-21	4.36	<0.1	<1.0	<1.0
18-Jun-21	3.51	<0.1	<1.0	<1.0
19-Jun-21	3.63	<0.1	<1.0	<1.0
25-Jun-21	3.74	<0.1	<1.0	<1.0
26-Jun-21	3.71	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.18
Area: Jagannath

Project	Ananta OCP				
Monitoring Station	Guthasahi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Jul-21	<20.0	4.86	<0.1	<1.0	<1.0
03-Jul-21	<20.0	5.42	<0.1	<1.0	<1.0
09-Jul-21	<20.0	4.87	<0.1	<1.0	<1.0
10-Jul-21	<20.0	4.53	<0.1	<1.0	<1.0
16-Jul-21	<20.0	5.52	<0.1	<1.0	<1.0
17-Jul-21	<20.0	4.40	<0.1	<1.0	<1.0
23-Jul-21	<20.0	4.62	<0.1	<1.0	<1.0
24-Jul-21	<20.0	3.72	<0.1	<1.0	<1.0
29-Jul-21	<20.0	5.32	<0.1	<1.0	<1.0
30-Jul-21	<20.0	6.02	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.19
Area: Jagannath

Project	Ananta OCP				
Monitoring Station	Guthasahi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Aug-21	<20.0	4.93	<0.1	<1.0	<1.0
07-Aug-21	<20.0	3.84	<0.1	<1.0	<1.0
12-Aug-21	<20.0	2.96	<0.1	<1.0	<1.0
13-Aug-21	<20.0	3.54	<0.1	<1.0	<1.0
20-Aug-21	<20.0	2.96	<0.1	<1.0	<1.0
21-Aug-21	<20.0	4.05	<0.1	<1.0	<1.0
26-Aug-21	<20.0	3.66	<0.1	<1.0	<1.0
27-Aug-21	<20.0	2.81	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.20
Area: Jagannath

Project	Ananta OCP				
Monitoring Station	Guthasahi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Sep-2021	<20.0	5.49	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	4.82	<0.1	<1.0	<1.0
10-Sep-2021	<20.0	6.03	<0.1	<1.0	<1.0
11-Sep-2021	<20.0	4.56	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	4.28	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	5.16	<0.1	<1.0	<1.0
24-Sep-2021	<20.0	4.23	<0.1	<1.0	<1.0
25-Sep-2021	<20.0	2.98	<0.1	<1.0	<1.0
30-Sep-2021	<20.0	4.38	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:79
Area: Jagannath

Project	Ananta OCP				
Monitoring Station	Guthasahi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
01-Oct-2021	<20.0	5.84	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	4.68	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	3.46	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	5.71	<0.1	<1.0	<1.0
15-Oct-2021	<20.0	3.82	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	6.55	<0.1	<1.0	<1.0
23-Oct-2021	<20.0	3.89	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	4.12	<0.1	<1.0	<1.0
29-Oct-2021	<20.0	4.89	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.21
Area: Jagannath

Project	Ananta OCP				
Monitoring Station	Guthasahi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
05-Nov-2021	<20.0	6.25	<0.1	<1.0	<1.0
06-Nov-2021	<20.0	5.16	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	7.68	<0.1	<1.0	<1.0
13-Nov-2021	<20.0	4.56	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	6.18	<0.1	<1.0	<1.0
20-Nov-2021	<20.0	3.99	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	4.38	<0.1	<1.0	<1.0
27-Nov-2021	<20.0	7.25	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.22
Area: Jagannath

Project	Ananta OCP				
Monitoring Station	Guthasahi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Dec-2021	<20.0	5.24	<0.1	<1.0	<1.0
04-Dec-2021	<20.0	5.26	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	7.68	<0.1	<1.0	<1.0
11-Dec-2021	<20.0	5.16	<0.1	<1.0	<1.0
17-Dec-2021	<20.0	5.68	<0.1	<1.0	<1.0
24-Dec-2021	<20.0	5.12	<0.1	<1.0	<1.0
25-Dec-2021	<20.0	5.32	<0.1	<1.0	<1.0
18-Dec-2021	<20.0	4.97	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	5.18	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	6.24	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.23
Area: Jagannath

Project	Ananta OCP				
Monitoring Station	Guthasahi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
07-Jan-2022	<20.0	4.15	<0.1	<1.0	<1.0
08-Jan-2022	<20.0	3.88	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	5.62	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	6.06	<0.1	<1.0	<1.0
22-Jan-2022	<20.0	7.23	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	6.89	<0.1	<1.0	<1.0
29-Jan-2022	<20.0	5.66	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.24
Area: Jagannath

Project	Ananta OCP				
Monitoring Station	Guthasahi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
04-Feb-2022	<20.0	5.32	<0.1	<1.0	<1.0
05-Feb-2022	<20.0	4.88	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	4.52	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	4.44	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	5.81	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	6.21	<0.1	<1.0	<1.0
24-Feb-2022	<20.0	5.76	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	3.96	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.25
Area: Jagannath

Project	Ananta OCP				
Monitoring Station	Guthasahi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
04-Mar-2022	<20.0	7.12	<0.1	<1.0	<1.0
05-Mar-2022	<20.0	7.24	<0.1	<1.0	<1.0
10-Mar-2022	<20.0	6.89	<0.1	<1.0	<1.0
11-Mar-2022	<20.0	5.16	<0.1	<1.0	<1.0
17-Mar-2022	<20.0	4.88	<0.1	<1.0	<1.0
18-Mar-2022	<20.0	5.12	<0.1	<1.0	<1.0
24-Mar-2022	<20.0	6.23	<0.1	<1.0	<1.0
25-Mar-2022	<20.0	6.56	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.26
Area: Jagannath

Project	Ananta OCP				
Monitoring Station	North-East of Mine				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
07-Oct-2021/1802	<1.0	<1.0	<1.0	<0.1	<0.1
21-Feb-2022/3343	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	

Table: 14.27
Area: Jagannath

Project	Ananta OCP				
Monitoring Station	Central Nursery				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
07-Oct-2021/1803	<1.0	<1.0	<1.0	<0.1	<0.1
21-Feb-2022/3344	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	

Table: 14.28
Area: Bharatpur

Project	Bharatpur OCP			
Monitoring Station	Near Joragadia Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)
09-Apr-21	2.56	<0.1	<1.0	<1.0
10-Apr-21	2.48	<0.1	<1.0	<1.0
16-Apr-21	3.24	<0.1	<1.0	<1.0
17-Apr-21	3.27	<0.1	<1.0	<1.0
23-Apr-21	3.21	<0.1	<1.0	<1.0
24-Apr-21	3.29	<0.1	<1.0	<1.0
30-Apr-21	3.25	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.29
Area: Bharatpur

Project	Bharatpur OCP			
Monitoring Station	Near Joragadia Village			
Date of sampling	Ozone (O ₃) ($\mu\text{g}/\text{m}^3$)	Lead (Pb) ($\mu\text{g}/\text{m}^3$)	Arsenic (As) (ng/m^3)	Nickel (Ni) (ng/m^3)
7-May-21	4.01	<0.1	<1.0	<1.0
8-May-21	4.12	<0.1	<1.0	<1.0
14-May-21	3.98	<0.1	<1.0	<1.0
15-May-21	4.2	<0.1	<1.0	<1.0
22-May-21	3.52	<0.1	<1.0	<1.0
21-May-21	3.48	<0.1	<1.0	<1.0
28-May-21	3.61	<0.1	<1.0	<1.0
29-May-21	3.66	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.30
Area: Bharatpur

Project	Bharatpur OCP			
Monitoring Station	Near Joragadia Village			
Date of sampling	Ozone (O ₃) ($\mu\text{g}/\text{m}^3$)	Lead (Pb) ($\mu\text{g}/\text{m}^3$)	Arsenic (As) (ng/m^3)	Nickel (Ni) (ng/m^3)
04-Jun-21	4.86	<0.1	<1.0	<1.0
05-Jun-21	3.74	<0.1	<1.0	<1.0
11-Jun-21	3.68	<0.1	<1.0	<1.0
12-Jun-21	3.80	<0.1	<1.0	<1.0
18-Jun-21	4.12	<0.1	<1.0	<1.0
19-Jun-21	4.28	<0.1	<1.0	<1.0
25-Jun-21	4.38	<0.1	<1.0	<1.0
26-Jun-21	4.27	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.31
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Near Joragadia Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Jul-21	<20.0	6.06	<0.1	<1.0	<1.0
03-Jul-21	<20.0	4.23	<0.1	<1.0	<1.0
09-Jul-21	<20.0	5.46	<0.1	<1.0	<1.0
10-Jul-21	<20.0	6.21	<0.1	<1.0	<1.0
16-Jul-21	<20.0	4.58	<0.1	<1.0	<1.0
17-Jul-21	<20.0	3.39	<0.1	<1.0	<1.0
23-Jul-21	<20.0	6.11	<0.1	<1.0	<1.0
24-Jul-21	<20.0	5.89	<0.1	<1.0	<1.0
29-Jul-21	<20.0	4.15	<0.1	<1.0	<1.0
30-Jul-21	<20.0	4.22	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.32
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Near Joragadia Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Aug-21	<20.0	4.22	<0.1	<1.0	<1.0
07-Aug-21	<20.0	4.06	<0.1	<1.0	<1.0
12-Aug-21	<20.0	3.96	<0.1	<1.0	<1.0
13-Aug-21	<20.0	2.99	<0.1	<1.0	<1.0
20-Aug-21	<20.0	3.98	<0.1	<1.0	<1.0
21-Aug-21	<20.0	6.02	<0.1	<1.0	<1.0
26-Aug-21	<20.0	5.74	<0.1	<1.0	<1.0
27-Aug-21	<20.0	4.96	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.33
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Near Joragadia Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Sep-2021	<20.0	5.42	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	5.27	<0.1	<1.0	<1.0
10-Sep-2021	<20.0	4.88	<0.1	<1.0	<1.0
11-Sep-2021	<20.0	5.23	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	4.56	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	5.67	<0.1	<1.0	<1.0
24-Sep-2021	<20.0	6.23	<0.1	<1.0	<1.0
25-Sep-2021	<20.0	5.72	<0.1	<1.0	<1.0
30-Sep-2021	<20.0	4.23	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.34
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Near Joragadia Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Oct-2021	<20.0	4.73	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	6.02	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	5.23	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	6.23	<0.1	<1.0	<1.0
15-Oct-2021	<20.0	5.88	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	6.24	<0.1	<1.0	<1.0
23-Oct-2021	<20.0	3.81	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	4.15	<0.1	<1.0	<1.0
29-Oct-2021	<20.0	6.08	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.35
Area: Bharatpur

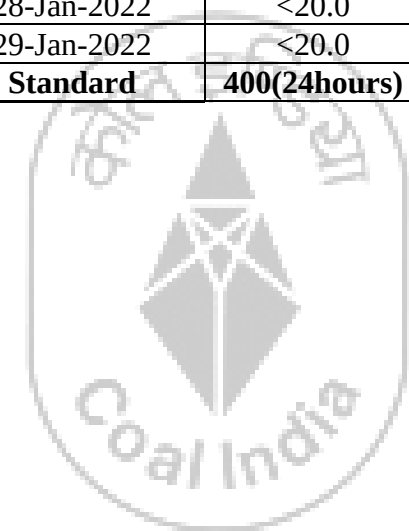
Project	Bharatpur OCP				
Monitoring Station	Near Joragadia Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
05-Nov-2021	<20.0	3.84	<0.1	<1.0	<1.0
06- Nov-2021	<20.0	3.78	<0.1	<1.0	<1.0
12- Nov-2021	<20.0	6.56	<0.1	<1.0	<1.0
13- Nov-2021	<20.0	7.13	<0.1	<1.0	<1.0
20- Nov-2021	<20.0	4.86	<0.1	<1.0	<1.0
26- Nov-2021	<20.0	4.57	<0.1	<1.0	<1.0
27- Nov-2021	<20.0	4.71	<0.1	<1.0	<1.0
19- Nov-2021	<20.0	5.16	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.36
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Near Joragadia Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Dec-2021	<20.0	3.74	<0.1	<1.0	<1.0
04-Dec-2021	<20.0	3.68	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	5.46	<0.1	<1.0	<1.0
11-Dec-2021	<20.0	5.13	<0.1	<1.0	<1.0
17-Dec-2021	<20.0	4.36	<0.1	<1.0	<1.0
18-Dec-2021	<20.0	4.57	<0.1	<1.0	<1.0
24-Dec-2021	<20.0	5.71	<0.1	<1.0	<1.0
25-Dec-2021	<20.0	4.66	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	5.17	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	5.23	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.37
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Near Joragadia Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
07-Jan-2022	<20.0	6.15	<0.1	<1.0	<1.0
08-Jan-2022	<20.0	5.70	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	6.19	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	7.18	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	6.86	<0.1	<1.0	<1.0
22-Jan-2022	<20.0	4.15	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	4.86	<0.1	<1.0	<1.0
29-Jan-2022	<20.0	3.96	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



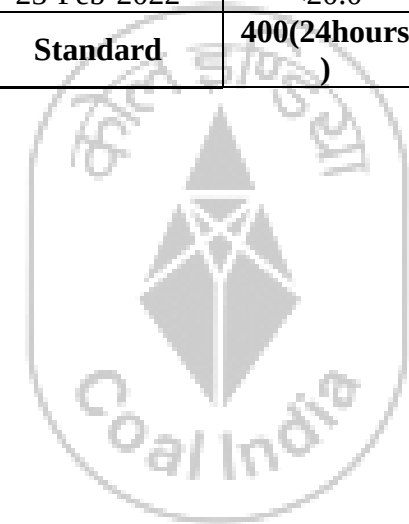
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JOB NO.750001

Table: 14.38
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Near Joragadia Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
04-Feb-2022	<20.0	3.86	<0.1	<1.0	<1.0
05-Feb-2022	<20.0	4.07	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	5.47	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	4.37	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	4.23	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	5.66	<0.1	<1.0	<1.0
24-Feb-2022	<20.0	5.72	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	4.06	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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JOB NO.750001

Table: 14.39
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Near Joragadia Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
04-Mar-2022	<20.0	5.73	<0.1	<1.0	<1.0
05-Mar-2022	<20.0	6.26	<0.1	<1.0	<1.0
10-Mar-2022	<20.0	7.46	<0.1	<1.0	<1.0
11-Mar-2022	<20.0	5.91	<0.1	<1.0	<1.0
17-Mar-2022	<20.0	4.82	<0.1	<1.0	<1.0
18-Mar-2022	<20.0	5.89	<0.1	<1.0	<1.0
24-Mar-2022	<20.0	6.12	<0.1	<1.0	<1.0
25-Mar-2022	<20.0	6.83	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.40
Area: Bharatpur

Project	Bharatpur OCP			
Monitoring Station	Natedi Village (Reported Only)			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
09-Apr-21	3.12	<0.1	<1.0	<1.0
10-Apr-21	3.17	<0.1	<1.0	<1.0
16-Apr-21	3.73	<0.1	<1.0	<1.0
17-Apr-21	3.78	<0.1	<1.0	<1.0
23-Apr-21	3.75	<0.1	<1.0	<1.0
24-Apr-21	3.71	<0.1	<1.0	<1.0
30-Apr-21	3.83	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.41
Area: Bharatpur

Project	Bharatpur OCP			
Monitoring Station	Natedi Village (Reported Only)			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
7-May-21	2.86	<0.1	<1.0	<1.0
8-May-21	2.77	<0.1	<1.0	<1.0
14-May-21	2.67	<0.1	<1.0	<1.0
15-May-21	2.7	<0.1	<1.0	<1.0
21-May/21	2.61	<0.1	<1.0	<1.0
22-May/21	2.58	<0.1	<1.0	<1.0
29-May/21	2.52	<0.1	<1.0	<1.0
28-May/21	2.48	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.42
Area: Bharatpur

Project	Bharatpur OCP			
Monitoring Station	Natedi Village (Reported Only)			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Jun-21	2.41	<0.1	<1.0	<1.0
05-Jun-21	2.36	<0.1	<1.0	<1.0
11-Jun-21	2.48	<0.1	<1.0	<1.0
12-Jun-21	2.54	<0.1	<1.0	<1.0
18-Jun-21	2.97	<0.1	<1.0	<1.0
19-Jun-21	3.01	<0.1	<1.0	<1.0
25-Jun-21	2.88	<0.1	<1.0	<1.0
26-Jun-21	2.79	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.43
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Natedi Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Jul-21	<20.0	3.76	<0.1	<1.0	<1.0
03-Jul-21	<20.0	2.64	<0.1	<1.0	<1.0
09-Jul-21	<20.0	3.86	<0.1	<1.0	<1.0
10-Jul-21	<20.0	2.94	<0.1	<1.0	<1.0
16-Jul-21	<20.0	6.15	<0.1	<1.0	<1.0
17-Jul-21	<20.0	4.79	<0.1	<1.0	<1.0
23-Jul-21	<20.0	3.68	<0.1	<1.0	<1.0
24-Jul-21	<20.0	4.52	<0.1	<1.0	<1.0
29-Jul-21	<20.0	3.66	<0.1	<1.0	<1.0
30-Jul-21	<20.0	4.89	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.44
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Natedi Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
06-Aug-21	<20.0	6.96	<0.1	<1.0	<1.0
07-Aug-21	<20.0	6.06	<0.1	<1.0	<1.0
12-Aug-21	<20.0	5.45	<0.1	<1.0	<1.0
13-Aug-21	<20.0	4.93	<0.1	<1.0	<1.0
20-Aug-21	<20.0	6.21	<0.1	<1.0	<1.0
21-Aug-21	<20.0	5.46	<0.1	<1.0	<1.0
26-Aug-21	<20.0	3.26	<0.1	<1.0	<1.0
27-Aug-21	<20.0	2.87	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.45
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Natedi Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Sep-2021	<20.0	5.11	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	3.98	<0.1	<1.0	<1.0
10-Sep-2021	<20.0	4.15	<0.1	<1.0	<1.0
11-Sep-2021	<20.0	5.16	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	6.12	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	4.56	<0.1	<1.0	<1.0
24-Sep-2021	<20.0	3.88	<0.1	<1.0	<1.0
25-Sep-2021	<20.0	4.45	<0.1	<1.0	<1.0
29-Sep-2021	<20.0	3.62	<0.1	<1.0	<1.0
30-Sep-2021	<20.0	5.62	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.46
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Natedi Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)
01-Oct-2021	<20.0	4.55	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	4.52	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	3.87	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	4.46	<0.1	<1.0	<1.0
15-Oct-2021	<20.0	3.94	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	4.73	<0.1	<1.0	<1.0
23-Oct-2021	<20.0	3.86	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	4.05	<0.1	<1.0	<1.0
29-Oct-2021	<20.0	5.66	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.47
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Natedi Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)
05-Nov-2021	<20.0	5.15	<0.1	<1.0	<1.0
06-Nov-2021	<20.0	4.36	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	3.89	<0.1	<1.0	<1.0
13-Nov-2021	<20.0	6.23	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	6.18	<0.1	<1.0	<1.0
20-Nov-2021	<20.0	7.21	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	6.10	<0.1	<1.0	<1.0
27-Nov-2021	<20.0	5.88	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.48
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Natedi Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Dec-2021	<20.0	4.95	<0.1	<1.0	<1.0
04-Dec-2021	<20.0	5.16	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	3.54	<0.1	<1.0	<1.0
11-Dec-2021	<20.0	6.23	<0.1	<1.0	<1.0
17-Dec-2021	<20.0	6.28	<0.1	<1.0	<1.0
18-Dec-2021	<20.0	6.41	<0.1	<1.0	<1.0
24-Dec-2021	<20.0	6.12	<0.1	<1.0	<1.0
25-Dec-2021	<20.0	5.38	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	6.19	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	4.98	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.49
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Natedi Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
07-Jan-2022	<20.0	5.70	<0.1	<1.0	<1.0
08-Jan-2022	<20.0	6.52	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	4.32	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	5.34	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	7.01	<0.1	<1.0	<1.0
22-Jan-2022	<20.0	5.15	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	4.81	<0.1	<1.0	<1.0
29-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.50
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Natedi Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
04-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
05-Feb-2022	<20.0	3.77	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	4.56	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	6.02	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	6.88	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	5.89	<0.1	<1.0	<1.0
24-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	5.62	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.51
Area: Bharatpur

Project	Bharatpur OCP				
Monitoring Station	Natedi Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
04-Mar-2022	<20.0	4.88	<0.1	<1.0	<1.0
05-Mar-2022	<20.0	5.45	<0.1	<1.0	<1.0
10-Mar-2022	<20.0	6.26	<0.1	<1.0	<1.0
11-Mar-2022	<20.0	6.31	<0.1	<1.0	<1.0
17-Mar-2022	<20.0	5.16	<0.1	<1.0	<1.0
18-Mar-2022	<20.0	5.23	<0.1	<1.0	<1.0
24-Mar-2022	<20.0	5.44	<0.1	<1.0	<1.0
25-Mar-2022	<20.0	5.86	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.52
Area: Bharatpur

Project	Bharatpur OCP			
Monitoring Station	Near ETP/Workshop			
Date of sampling	Lead (Pb)	Arsenic (As)	Mercury (Hg)	Chromium (Cr)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
11-Oct-2021	<0.1	<1.0	<1.0	<0.1
22-Feb-2022	<0.1	<1.0	<1.0	<0.1
Standard	1.0(24hours)	6.0(Annual)	-	-

Table: 14.53
Area: Bharatpur

Project	Bharatpur OCP			
Monitoring Station	North-West Point of the Mine			
Date of sampling	Lead (Pb)	Arsenic (As)	Mercury (Hg)	Chromium (Cr)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
11-Oct-2021	<0.1	<1.0	<1.0	<0.1
22-Feb-2022	<0.1	<1.0	<1.0	<0.1
Standard	1.0(24hours)	6.0(Annual)	-	-

Table: 14.54
Area: Bharatpur

Project	Bharatpur OCP			
Monitoring Station	Near MGR-RLS of Bharatpur			
Date of sampling	Lead (Pb)	Arsenic (As)	Mercury (Hg)	Chromium (Cr)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
11-Oct-2021	<0.1	<1.0	<1.0	<0.1
22-Feb-2022	<0.1	<1.0	<1.0	<0.1
Standard	1.0(24hours)	6.0(Annual)	-	-

Table: 14.55
Area: Bharatpur

Project	Bharatpur OCP			
Monitoring Station	Near Regional Store			
Date of sampling	Lead (Pb)	Arsenic (As)	Mercury (Hg)	Chromium (Cr)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
11-Oct-2021	<0.1	<1.0	<1.0	<0.1
22-Feb-2022	<0.1	<1.0	<1.0	<0.1
Standard	1.0(24hours)	6.0(Annual)	-	-

Table: 14.56
Area: Bharatpur

Project	Chhendipada OCP			
Monitoring Station	Security Post of Chhendipada OCP			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Apr-21	No Power Connection			
07-Apr-21	Strike			
13-Apr-21	3.65	<0.1	<1.0	<1.0
14-Apr-21	Strike			
19-Apr-21	3.60	<0.1	<1.0	<1.0
20-Apr-21	3.64	<0.1	<1.0	<1.0
26-Apr-21	6.62	<0.1	<1.0	<1.0
27-Apr-21	3.66	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.57
Area: Bharatpur

Project	Chhendipada OCP				
Monitoring Station	Security Post of Chhendipada OCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
20-Jul-21	<20.0	6.15	<0.1	<1.0	<1.0
26-Jul-21	<20.0	4.56	<0.1	<1.0	<1.0
27-Jul-21	<20.0	3.84	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.58
Area: Bharatpur

Project	Chhendipada OCP				
Monitoring Station	Security Post of Chhendipada OCP				
Date of sampling	Ammonia (NH ₃) ($\mu\text{g}/\text{m}^3$)	Ozone (O ₃) ($\mu\text{g}/\text{m}^3$)	Lead (Pb) ($\mu\text{g}/\text{m}^3$)	Arsenic (As) (ng/m^3)	Nickel (Ni) (ng/m^3)
02-Aug-21	<20.0	4.13	<0.1	<1.0	<1.0
03-Aug-21	<20.0	2.89	<0.1	<1.0	<1.0
09-Aug-21	<20.0	3.56	<0.1	<1.0	<1.0
10-Aug-21	<20.0	4.51	<0.1	<1.0	<1.0
16-Aug-21	<20.0	6.21	<0.1	<1.0	<1.0
17-Aug-21	<20.0	4.29	<0.1	<1.0	<1.0
23-Aug-21	<20.0	3.43	<0.1	<1.0	<1.0
24-Aug-21	<20.0	2.69	<0.1	<1.0	<1.0
30-Aug-21	<20.0	3.75	<0.1	<1.0	<1.0
31-Aug-21	<20.0	3.68	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.59
Area: Bharatpur

Project	Chhendipada OCP				
Monitoring Station	Security Post of Chhendipada OCP				
Date of sampling	Ammonia (NH ₃) ($\mu\text{g}/\text{m}^3$)	Ozone (O ₃) ($\mu\text{g}/\text{m}^3$)	Lead (Pb) ($\mu\text{g}/\text{m}^3$)	Arsenic (As) (ng/m^3)	Nickel (Ni) (ng/m^3)
06-Sep-2021	<20.0	4.65	<0.1	<1.0	<1.0
07-Sep-2021	<20.0	4.13	<0.1	<1.0	<1.0
13-Sep-2021	<20.0	5.23	<0.1	<1.0	<1.0
14-Sep-2021	<20.0	6.01	<0.1	<1.0	<1.0
20-Sep-2021	<20.0	2.88	<0.1	<1.0	<1.0
21-Sep-2021	<20.0	4.52	<0.1	<1.0	<1.0
27-Sep-2021	<20.0	3.62	<0.1	<1.0	<1.0
28-Sep-2021	<20.0	3.83	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.60
Area: Bharatpur

Project	Chhendipada OCP				
Monitoring Station	Security Post of Chhendipada OCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
04-Oct-2021	<20.0	4.82	<0.1	<1.0	<1.0
06-Oct-2021	<20.0	6.70	<0.1	<1.0	<1.0
11-Oct-2021	<20.0	3.98	<0.1	<1.0	<1.0
12-Oct-2021	<20.0	4.89	<0.1	<1.0	<1.0
19-Oct-2021	<20.0	6.08	<0.1	<1.0	<1.0
20-Oct-2021	<20.0	3.82	<0.1	<1.0	<1.0
25-Oct-2021	<20.0	3.82	<0.1	<1.0	<1.0
26-Oct-2021	<20.0	6.23	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.61
Area: Bharatpur

Project	Chhendipada OCP				
Monitoring Station	Security Post of Chhendipada OCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
01-Nov-2021	<20.0	6.84	<0.1	<1.0	<1.0
02-Nov-2021	<20.0	5.54	<0.1	<1.0	<1.0
08-Nov-2021	<20.0	6.06	<0.1	<1.0	<1.0
09-Nov-2021	<20.0	4.87	<0.1	<1.0	<1.0
16-Nov-2021	<20.0	3.88	<0.1	<1.0	<1.0
17-Nov-2021	<20.0	4.68	<0.1	<1.0	<1.0
22-Nov-2021	<20.0	5.46	<0.1	<1.0	<1.0
23-Nov-2021	<20.0	6.42	<0.1	<1.0	<1.0
29-Nov-2021	<20.0	7.15	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.62
Area: Bharatpur

Project	Chhendipada OCP				
Monitoring Station	Security Post of Chhendipada OCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
13-Dec-2021	<20.0	6.59	<0.1	<1.0	<1.0
14-Dec-2021	<20.0	5.32	<0.1	<1.0	<1.0
21-Dec-2021	<20.0	5.16	<0.1	<1.0	<1.0
22-Dec-2021	<20.0	5.26	<0.1	<1.0	<1.0
27-Dec-2021	<20.0	4.99	<0.1	<1.0	<1.0
28-Dec-2021	<20.0	5.28	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.63
Area: Bharatpur

Project	Chhendipada OCP				
Monitoring Station	Security Post of Chhendipada OCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
05-Jan-2022	<20.0	6.18	<0.1	<1.0	<1.0
06-Jan-2022	<20.0	6.32	<0.1	<1.0	<1.0
11-Jan-2022	<20.0	5.12	<0.1	<1.0	<1.0
12-Jan-2022	<20.0	3.91	<0.1	<1.0	<1.0
19-Jan-2022	<20.0	4.23	<0.1	<1.0	<1.0
20-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
24-Jan-2022	<20.0	7.58	<0.1	<1.0	<1.0
25-Jan-2022	<20.0	4.23	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.64
Area: Bharatpur

Project	Chhendipada OCP
Monitoring Station	Security Post of Chhendipada OCP

Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
02-Feb-2022	<20.0	5.26	<0.1	<1.0	<1.0
03-Feb-2022	<20.0	3.71	<0.1	<1.0	<1.0
07-Feb-2022	<20.0	5.86	<0.1	<1.0	<1.0
08-Feb-2022	<20.0	7.01	<0.1	<1.0	<1.0
16-Feb-2022	<20.0	7.23	<0.1	<1.0	<1.0
17-Feb-2022	<20.0	6.89	<0.1	<1.0	<1.0
21-Feb-2022	<20.0	7.12	<0.1	<1.0	<1.0
22-Feb-2022	<20.0	6.56	<0.1	<1.0	<1.0
28-Feb-2022	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.65
Area: Bharatpur

Project	Chhendipada OCP				
Monitoring Station	Security Post of Chhendipada OCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
02-Mar-2022	<20.0	5.07	<0.1	<1.0	<1.0
07-Mar-2022	<20.0	6.61	<0.1	<1.0	<1.0
08-Mar-2022	<20.0	5.48	<0.1	<1.0	<1.0
15-Mar-2022	<20.0	5.68	<0.1	<1.0	<1.0
16-Mar-2022	<20.0	7.01	<0.1	<1.0	<1.0
21-Mar-2022	<20.0	6.56	<0.1	<1.0	<1.0
22-Mar-2022	<20.0	4.12	<0.1	<1.0	<1.0
28-Mar-2022	<20.0	5.23	<0.1	<1.0	<1.0
29-Mar-2022	<20.0	6.14	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.66
Area: Lingraj

Project	Lingaraj OCP			
Monitoring Station	Near Kankili Community Centre			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
01-Apr-21	3.46	<0.1	<1.0	<1.0
02-Apr-21	3.21	<0.1	<1.0	<1.0

08-Apr-21	3.36	<0.1	<1.0	<1.0
09-Apr-21	3.38	<0.1	<1.0	<1.0
15-Apr-21	3.46	<0.1	<1.0	<1.0
16-Apr-21	2.63	<0.1	<1.0	<1.0
22-Apr-21	2.65	<0.1	<1.0	<1.0
23-Apr-21	2.69	<0.1	<1.0	<1.0
29-Apr-21	2.66	<0.1	<1.0	<1.0
30-Apr-21	2.61	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.67
Area: Lingraj

Project	Lingaraj OCP			
Monitoring Station	Near Kankili Community Centre			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m ³)	(ng/m ³)
6-May-21	3.74	<0.1	<1.0	<1.0
7-May-21	3.86	<0.1	<1.0	<1.0
13-May-21	3.68	<0.1	<1.0	<1.0
14-May-21	3.94	<0.1	<1.0	<1.0
20-May-21	4.01	<0.1	<1.0	<1.0
21-May-21	4.12	<0.1	<1.0	<1.0
27-May-21	3.97	<0.1	<1.0	<1.0
28-May-21	4.2	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.68
Area: Lingraj

Project	Lingaraj OCP			
Monitoring Station	Near Kankili Community Centre			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m ³)	(ng/m ³)
03-Jun-21	2.48	<0.1	<1.0	<1.0
04-Jun-21	2.56	<0.1	<1.0	<1.0
10-Jun-21	2.36	<0.1	<1.0	<1.0
11-Jun-21	3.57	<0.1	<1.0	<1.0
17-Jun-21	3.54	<0.1	<1.0	<1.0

18-Jun-21	3.48	<0.1	<1.0	<1.0
25-Jun-21	3.37	<0.1	<1.0	<1.0
26-Jun-21	3.28	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.69
Area: Lingraj

Project	Lingaraj OCP				
Monitoring Station	Near Kankili Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m ³)	(ng/m ³)
02-Jul-21	<20.0	3.71	<0.1	<1.0	<1.0
03-Jul-21	<20.0	4.72	<0.1	<1.0	<1.0
08-Jul-21	<20.0	3.76	<0.1	<1.0	<1.0
09-Jul-21	<20.0	4.89	<0.1	<1.0	<1.0
15-Jul-21	<20.0	3.26	<0.1	<1.0	<1.0
16-Jul-21	<20.0	4.36	<0.1	<1.0	<1.0
22-Jul-21	<20.0	3.72	<0.1	<1.0	<1.0
23-Jul-21	<20.0	4.70	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.70
Area: Lingraj

Project	Lingaraj OCP				
Monitoring Station	Near Kankili Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m ³)	(ng/m ³)
05-Aug-21	<20.0	3.63	<0.1	<1.0	<1.0
06-Aug-21	<20.0	4.73	<0.1	<1.0	<1.0
11-Aug-21	<20.0	4.81	<0.1	<1.0	<1.0
12-Aug-21	<20.0	4.63	<0.1	<1.0	<1.0
19-Aug-21	<20.0	5.81	<0.1	<1.0	<1.0
20-Aug-21	<20.0	3.92	<0.1	<1.0	<1.0
25-Aug-21	<20.0	4.60	<0.1	<1.0	<1.0
26-Aug-21	<20.0	5.77	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table:14.71
Area: Lingraj

Project	Lingaraj OCP				
Monitoring Station	Near Kankili Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Sep-2021	<20.0	5.55	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	4.88	<0.1	<1.0	<1.0
08-Sep-2021	<20.0	5.27	<0.1	<1.0	<1.0
09-Sep-2021	<20.0	5.36	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	4.73	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	3.88	<0.1	<1.0	<1.0
22-Sep-2021	<20.0	4.26	<0.1	<1.0	<1.0
23-Sep-2021	<20.0	5.04	<0.1	<1.0	<1.0
29-Sep-2021	<20.0	5.73	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.72
Area: Lingraj

Project	Lingaraj OCP				
Monitoring Station	Near Kankili Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
01-Oct-2021	<20.0	5.48	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	5.73	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	4.15	<0.1	<1.0	<1.0
13-Oct-2021	<20.0	5.63	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	6.21	<0.1	<1.0	<1.0
21-Oct-2021	<20.0	6.15	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	5.98	<0.1	<1.0	<1.0
27-Oct-2021	<20.0	5.73	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	4.89	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.73

Area: Lingraj

Project	Lingaraj OCP				
Monitoring Station	Near Kankili Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
04-Nov-2021	<20.0	3.86	<0.1	<1.0	<1.0
05-Nov-2021	<20.0	4.13	<0.1	<1.0	<1.0
11-Nov-2021	<20.0	5.13	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	6.26	<0.1	<1.0	<1.0
18-Nov-2021	<20.0	4.56	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	5.77	<0.1	<1.0	<1.0
25-Nov-2021	<20.0	4.89	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	5.26	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.74
Area: Lingraj

Project	Lingaraj OCP				
Monitoring Station	Near Kankili Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
02-Dec-2021	<20.0	4.21	<0.1	<1.0	<1.0
03-Dec-2021	<20.0	3.92	<0.1	<1.0	<1.0
09-Dec-2021	<20.0	4.28	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	5.64	<0.1	<1.0	<1.0
16-Dec-2021	<20.0	4.28	<0.1	<1.0	<1.0
17-Dec-2021	<20.0	5.59	<0.1	<1.0	<1.0
23-Dec-2021	<20.0	4.16	<0.1	<1.0	<1.0
24-Dec-2021	<20.0	4.52	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	5.13	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	6.05	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.75
Area: Lingraj

Project	Lingaraj OCP

Monitoring Station	Near Kankili Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
06-Jan-2022	<20.0	6.23	<0.1	<1.0	<1.0
07-Jan-2022	<20.0	7.56	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	7.12	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	4.58	<0.1	<1.0	<1.0
20-Jan-2022	<20.0	5.62	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	6.61	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	4.55	<0.1	<1.0	<1.0
29-Jan-2022	<20.0	5.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.76
Area: Lingraj

Project	Lingaraj OCP				
Monitoring Station	Near Kankili Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Feb-2022	<20.0	6.82	<0.1	<1.0	<1.0
04-Feb-2022	<20.0	5.74	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	4.48	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	3.76	<0.1	<1.0	<1.0
17-Feb-2022	<20.0	5.66	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	4.60	<0.1	<1.0	<1.0
24-Feb-2022	<20.0	5.51	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.77
Area: Lingraj

Project	Lingaraj OCP				
Monitoring Station	Near Kankili Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Mar-2022	<20.0	6.82	<0.1	<1.0	<1.0
04-Mar-2022	<20.0	6.36	<0.1	<1.0	<1.0
10-Mar-2022	<20.0	6.02	<0.1	<1.0	<1.0

11-Mar-2022	<20.0	5.97	<0.1	<1.0	<1.0
16-Mar-2022	<20.0	6.12	<0.1	<1.0	<1.0
17-Mar-2022	<20.0	6.26	<0.1	<1.0	<1.0
24-Mar-2022	<20.0	5.89	<0.1	<1.0	<1.0
25-Mar-2022	<20.0	4.91	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.78
Area: Lingraj

Project	Lingaraj OCP				
Monitoring Station	Near OB Dump no. 5 (South Side of the Mine)				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	<i>(ng/m3)</i>	<i>(ng/m3)</i>	<i>(ng/m3)</i>	<i>(µg/m3)</i>	<i>(µg/m3)</i>
06-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
17-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:14.79
Area: Lingraj

Project	Lingaraj OCP				
Monitoring Station	Near OB Dump no. 10 (North Side of the Mine)				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	<i>(ng/m3)</i>	<i>(ng/m3)</i>	<i>(ng/m3)</i>	<i>(µg/m3)</i>	<i>(µg/m3)</i>
06-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
17-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:14.80
Area: Lingraj

Project	Lingaraj OCP				
Monitoring Station	IWSS				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	<i>(ng/m3)</i>	<i>(ng/m3)</i>	<i>(ng/m3)</i>	<i>(µg/m3)</i>	<i>(µg/m3)</i>
06-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
17-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:14.81
Area: Lingraj

Project	Lingaraj OCP				
Monitoring Station	Near CT Road (Lingaraj to Dera)				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
06-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
17-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:14.82
Area: Kaniha

Project	Kaniha OCP			
Monitoring Station	South of Proposed Quarry Limit of KOCP			
Date of sampling	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m3)	(µg/m3)	(ng/m3)	(ng/m3)
02-Apr-21	2.86	<0.1	<1.0	<1.0
03-Apr-21	2.76	<0.1	<1.0	<1.0
14-Apr-21	2.79	<0.1	<1.0	<1.0
15-Apr-21	2.88	<0.1	<1.0	<1.0
20-Apr-21	4.12	<0.1	<1.0	<1.0
21-Apr-21	4.18	<0.1	<1.0	<1.0
28-Apr-21	4.09	<0.1	<1.0	<1.0
29-Apr-21	4.15	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.83
Area: Kaniha

Project	Kaniha OCP			
Monitoring Station	South of Proposed Quarry Limit of KOCP			
Date of sampling	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m3)	(µg/m3)	(ng/m3)	(ng/m3)
4-May-21	2.48	<0.1	<1.0	<1.0
5-May-21	2.36	<0.1	<1.0	<1.0
12-May-21	2.57	<0.1	<1.0	<1.0

13-May-21	2.44	<0.1	<1.0	<1.0
18-May-21	2.18	<0.1	<1.0	<1.0
19-May-21	2.36	<0.1	<1.0	<1.0
26-May-21	2.24	<0.1	<1.0	<1.0
27-May-21	2.39	<0.1	<1.0	<1.0
31-May-21	2.14	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.84
Area: Kaniha

Project	Kaniha OCP			
Monitoring Station	South of Proposed Quarry Limit of KOCP			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Jun-21	2.86	<0.1	<1.0	<1.0
09-Jun-21	2.79	<0.1	<1.0	<1.0
10-Jun-21	2.71	<0.1	<1.0	<1.0
14-Jun-21	2.60	<0.1	<1.0	<1.0
15-Jun-21	2.89	<0.1	<1.0	<1.0
23-Jun-21	2.81	<0.1	<1.0	<1.0
24-Jun-21	2.79	<0.1	<1.0	<1.0
28-Jun-21	2.71	<0.1	<1.0	<1.0
29-Jun-21	7.64	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.85
Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	South of Proposed Quarry Limit of KOCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Jul-21	<20.0	5.82	<0.1	<1.0	<1.0
08-Jul-21	<20.0	6.12	<0.1	<1.0	<1.0
13-Jul-21	<20.0	4.56	<0.1	<1.0	<1.0
14-Jul-21	<20.0	6.09	<0.1	<1.0	<1.0
20-Jul-21	<20.0	4.46	<0.1	<1.0	<1.0
21-Jul-21	<20.0	3.70	<0.1	<1.0	<1.0

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27-Jul-21	<20.0	3.55	<0.1	<1.0	<1.0
28-Jul-21	<20.0	3.84	<0.1	<1.0	<1.0
Standard	400 (24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.86
Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	South of Proposed Quarry Limit of KOCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m ³)	(ng/m ³)
03-Aug-21	<20.0	4.66	<0.1	<1.0	<1.0
04-Aug-21	<20.0	6.23	<0.1	<1.0	<1.0
10-Aug-21	<20.0	4.56	<0.1	<1.0	<1.0
11-Aug-21	<20.0	3.21	<0.1	<1.0	<1.0
17-Aug-21	<20.0	4.32	<0.1	<1.0	<1.0
18-Aug-21	<20.0	4.36	<0.1	<1.0	<1.0
24-Aug-21	<20.0	6.21	<0.1	<1.0	<1.0
25-Aug-21	<20.0	5.86	<0.1	<1.0	<1.0
30-Aug-21	<20.0	4.82	<0.1	<1.0	<1.0
31-Aug-21	<20.0	4.84	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.87
Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	South of Proposed Quarry Limit of KOCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m ³)	(ng/m ³)
06-Sep-2021	<20.0	4.26	<0.1	<1.0	<1.0
07-Sep-2021	<20.0	4.76	<0.1	<1.0	<1.0
13-Sep-2021	<20.0	3.73	<0.1	<1.0	<1.0
14-Sep-2021	<20.0	3.86	<0.1	<1.0	<1.0
20-Sep-2021	<20.0	6.15	<0.1	<1.0	<1.0
21-Sep-2021	<20.0	3.88	<0.1	<1.0	<1.0
27-Sep-2021	<20.0	4.12	<0.1	<1.0	<1.0
28-Sep-2021	<20.0	3.66	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.88

Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	South of Proposed Quarry Limit of KOCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Oct-2021	<20.0	4.12	<0.1	<1.0	<1.0
05-Oct-2021	<20.0	3.98	<0.1	<1.0	<1.0
11-Oct-2021	<20.0	6.22	<0.1	<1.0	<1.0
12-Oct-2021	<20.0	5.72	<0.1	<1.0	<1.0
18-Oct-2021	<20.0	3.92	<0.1	<1.0	<1.0
19-Oct-2021	<20.0	5.15	<0.1	<1.0	<1.0
25-Oct-2021	<20.0	6.05	<0.1	<1.0	<1.0
26-Oct-2021	<20.0	6.29	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.89

Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	South of Proposed Quarry Limit of KOCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Nov-2021	<20.0	5.68	<0.1	<1.0	<1.0
02-Nov-2021	<20.0	5.83	<0.1	<1.0	<1.0
08-Nov-2021	<20.0	4.62	<0.1	<1.0	<1.0
09-Nov-2021	<20.0	7.12	<0.1	<1.0	<1.0
16-Nov-2021	<20.0	5.56	<0.1	<1.0	<1.0
17-Nov-2021	<20.0	4.88	<0.1	<1.0	<1.0
22-Nov-2021	<20.0	5.73	<0.1	<1.0	<1.0
23-Nov-2021	<20.0	6.15	<0.1	<1.0	<1.0
29-Nov-2021	<20.0	7.56	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.90

Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	South of Proposed Quarry Limit of KOCP				

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Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
07-Dec-2021	<20.0	5.15	<0.1	<1.0	<1.0
13-Dec-2021	<20.0	5.12	<0.1	<1.0	<1.0
14-Dec-2021	<20.0	4.57	<0.1	<1.0	<1.0
20-Dec-2021	<20.0	6.53	<0.1	<1.0	<1.0
21-Dec-2021	<20.0	5.74	<0.1	<1.0	<1.0
27-Dec-2021	<20.0	5.26	<0.1	<1.0	<1.0
28-Dec-2021	<20.0	4.90	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.91
Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	South of Proposed Quarry Limit of KOCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
04-Jan-2022	<20.0	4.88	<0.1	<1.0	<1.0
11-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
12-Jan-2022	<20.0	7.06	<0.1	<1.0	<1.0
17-Jan-2022	<20.0	4.83	<0.1	<1.0	<1.0
18-Jan-2022	<20.0	6.06	<0.1	<1.0	<1.0
24-Jan-2022	<20.0	3.86	<0.1	<1.0	<1.0
25-Jan-2022	<20.0	4.05	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.92
Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	South of Proposed Quarry Limit of KOCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
01-Feb-2022	<20.0	4.51	<0.1	<1.0	<1.0
02-Feb-2022	<20.0	5.28	<0.1	<1.0	<1.0
07-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
08-Feb-2022	<20.0	7.06	<0.1	<1.0	<1.0
15-Feb-2022	<20.0	5.15	<0.1	<1.0	<1.0
16-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0

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21-Feb-2022	<20.0	7.11	<0.1	<1.0	<1.0
22-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
28-Feb-2022	<20.0	586	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.93
Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	South of Proposed Quarry Limit of KOCP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Mar-2022	<20.0	5.89	<0.1	<1.0	<1.0
07-Mar-2022	<20.0	4.12	<0.1	<1.0	<1.0
08-Mar-2022	<20.0	5.77	<0.1	<1.0	<1.0
14-Mar-2022	<20.0	5.68	<0.1	<1.0	<1.0
15-Mar-2022	<20.0	4.81	<0.1	<1.0	<1.0
21-Mar-2022	<20.0	6.12	<0.1	<1.0	<1.0
22-Mar-2022	<20.0	7.12	<0.1	<1.0	<1.0
28-Mar-2022	<20.0	5.12	<0.1	<1.0	<1.0
29-Mar-2022	<20.0	6.02	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.94
Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	Project Office				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m^3)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
08-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
16-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:14.95
Area: Kaniha

Project	Kaniha OCP
Monitoring Station	New Time Office (Near Z-Patch)

Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
04-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
16-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:14.96
Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	Old Site Office				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
05-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
16-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:14.97
Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	North East Side of Project Office				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
05-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
16-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:14.98
Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	Near Jatra Padia, Jarada				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
01-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
16-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

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Table:14.99
Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	Near External OB Dump Jamania				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
01-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
15-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:14.100
Area: Kaniha

Project	Kaniha OCP				
Monitoring Station	West of Mine Quarry				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
05-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
15-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:14.101
Area: Hingula

Project	Hingula OCP			
Monitoring Station	North of the Mine, Purnapi, Kumunda Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m3)	(µg/m3)	(ng/m3)	(ng/m3)
01-Apr-21	3.90	<0.1	<1.0	<1.0
02-Apr-21	3.84	<0.1	<1.0	<1.0
08-Apr-21	3.99	<0.1	<1.0	<1.0
09-Apr-21	4.01	<0.1	<1.0	<1.0
15-Apr-21	4.12	<0.1	<1.0	<1.0
16-Apr-21	3.42	<0.1	<1.0	<1.0
22-Apr-21	3.49	<0.1	<1.0	<1.0
23-Apr-21	3.39	<0.1	<1.0	<1.0

29-Apr-21	3.41	<0.1	<1.0	<1.0
30-Apr-21	3.46	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.102
Area: Hingula

Project	Hingula OCP			
Monitoring Station	North of the Mine, Purnapi, Kumunda Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
6-May-21	4.01	<0.1	<1.0	<1.0
7-May-21	3.98	<0.1	<1.0	<1.0
13-May-21	4.11	<0.1	<1.0	<1.0
14-May-21	3.84	<0.1	<1.0	<1.0
20-May-21	3.52	<0.1	<1.0	<1.0
21-May-21	3.48	<0.1	<1.0	<1.0
27-May-21	3.39	<0.1	<1.0	<1.0
28-May-21	3.58	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.103
Area: Hingula

Project	Hingula OCP			
Monitoring Station	North of the Mine, Purnapi, Kumunda Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Jun-21	4.01	<0.1	<1.0	<1.0
04-Jun-21	3.99	<0.1	<1.0	<1.0
10-Jun-21	4.06	<0.1	<1.0	<1.0
12-Jun-21	3.96	<0.1	<1.0	<1.0
17-Jun-21	2.12	<0.1	<1.0	<1.0
18-Jun-21	2.28	<0.1	<1.0	<1.0
25-Jun-21	2.30	<0.1	<1.0	<1.0
26-Jun-21	2.39	<0.1	<1.0	<1.0
28-Jun-21	2.47	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.104
Area: Hingula

Project	Hingula OCP				
Monitoring Station	North of the Mine, Purnapi, Kumunda Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Jul-21	<20.0	5.72	<0.1	<1.0	<1.0
08-Jul-21	<20.0	3.78	<0.1	<1.0	<1.0
09-Jul-21	<20.0	4.26	<0.1	<1.0	<1.0
15-Jul-21	<20.0	4.54	<0.1	<1.0	<1.0
16-Jul-21	<20.0	3.89	<0.1	<1.0	<1.0
17-Jul-21	<20.0	3.76	<0.1	<1.0	<1.0
22-Jul-21	<20.0	4.12	<0.1	<1.0	<1.0
23-Jul-21	<20.0	3.18	<0.1	<1.0	<1.0
28-Jul-21	<20.0	4.20	<0.1	<1.0	<1.0
29-Jul-21	<20.0	4.52	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.105
Area: Hingula

Project	Hingula OCP				
Monitoring Station	North of the Mine, Purnapi, Kumunda Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Aug-21	<20.0	3.69	<0.1	<1.0	<1.0
07-Aug-21	<20.0	4.52	<0.1	<1.0	<1.0
11-Aug-21	<20.0	3.73	<0.1	<1.0	<1.0
12-Aug-21	<20.0	4.69	<0.1	<1.0	<1.0
20-Aug-21	<20.0	5.10	<0.1	<1.0	<1.0
21-Aug-21	<20.0	4.92	<0.1	<1.0	<1.0
25-Aug-21	<20.0	5.64	<0.1	<1.0	<1.0
26-Aug-21	<20.0	4.15	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.106
Area: Hingula

Project	Hingula OCP				
Monitoring Station	North of the Mine, Purnapi, Kumunda Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Sep-2021	<20.0	4.02	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	3.96	<0.1	<1.0	<1.0
08-Sep-2021	<20.0	4.15	<0.1	<1.0	<1.0
09-Sep-2021	<20.0	3.86	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	4.16	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	5.26	<0.1	<1.0	<1.0
22-Sep-2021	<20.0	3.82	<0.1	<1.0	<1.0
23-Sep-2021	<20.0	4.15	<0.1	<1.0	<1.0
29-Sep-2021	<20.0	4.62	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.107
Area: Hingula

Project	Hingula OCP				
Monitoring Station	North of the Mine, Purnapi, Kumunda Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
30-Sep-2021	<20.0	5.21	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.108
Area: Hingula

Project	Hingula OCP				
Monitoring Station	North of the Mine, Purnapi, Kumunda Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Oct-2021	<20.0	4.86	<0.1	<1.0	<1.0
13-Oct-2021	<20.0	6.12	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	5.40	<0.1	<1.0	<1.0
21-Oct-2021	<20.0	6.41	<0.1	<1.0	<1.0
27-Oct-2021	<20.0	6.55	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	4.82	<0.1	<1.0	<1.0

29-Oct-2021	<20.0	5.22	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.109
Area: Hingula

Project	Hingula OCP				
Monitoring Station	North of the Mine, Purnapi, Kumunda Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Nov-2021	<20.0	6.18	<0.1	<1.0	<1.0
05-Nov-2021	<20.0	5.86	<0.1	<1.0	<1.0
11-Nov-2021	<20.0	4.92	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	5.17	<0.1	<1.0	<1.0
18-Nov-2021	<20.0	6.23	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	5.05	<0.1	<1.0	<1.0
25-Nov-2021	<20.0	6.18	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	7.06	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.110
Area: Hingula

Project	Hingula OCP				
Monitoring Station	North of the Mine, Purnapi, Kumunda Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Dec-2021	<20.0	7.03	<0.1	<1.0	<1.0
03-Dec-2021	<20.0	5.85	<0.1	<1.0	<1.0
09-Dec-2021	<20.0	4.52	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	5.67	<0.1	<1.0	<1.0
17-Dec-2021	<20.0	5.23	<0.1	<1.0	<1.0
18-Dec-2021	<20.0	5.25	<0.1	<1.0	<1.0
23-Dec-2021	<20.0	6.15	<0.1	<1.0	<1.0
24-Dec-2021	<20.0	7.23	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	6.16	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	6.26	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.111
Area: Hingula

Project	Hingula OCP				
Monitoring Station	North of the Mine, Purnapi, Kumunda Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
06-Jan-2022	<20.0	4.55	<0.1	<1.0	<1.0
07-Jan-2022	<20.0	4.56	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	5.15	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	5.08	<0.1	<1.0	<1.0
20-Jan-2022	<20.0	4.23	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	6.25	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	5.81	<0.1	<1.0	<1.0
29-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.112
Area: Hingula

Project	Hingula OCP				
Monitoring Station	North of the Mine, Purnapi, Kumunda Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Feb-2022	<20.0	5.28	<0.1	<1.0	<1.0
04-Feb-2022	<20.0	6.05	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	4.88	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	5.26	<0.1	<1.0	<1.0
17-Feb-2022	<20.0	6.12	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
24-Feb-2022	<20.0	5.96	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.113
Area: Hingula

Project	Hingula OCP				
Monitoring Station	North of the Mine, Purnapi, Kumunda Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Mar-2022	<20.0	5.89	<0.1	<1.0	<1.0
04-Mar-2022	<20.0	6.23	<0.1	<1.0	<1.0

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10-Mar-2022	<20.0	4.81	<0.1	<1.0	<1.0
11-Mar-2022	<20.0	5.55	<0.1	<1.0	<1.0
16-Mar-2022	<20.0	4.89	<0.1	<1.0	<1.0
17-Mar-2022	<20.0	5.65	<0.1	<1.0	<1.0
24-Mar-2022	<20.0	6.02	<0.1	<1.0	<1.0
25-Mar-2022	<20.0	7.01	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.114
Area: Hingula

Project	Hingula OCP			
Monitoring Station	North East of the Mine, Solada Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Apr-21	3.36	<0.1	<1.0	<1.0
02-Apr-21	3.40	<0.1	<1.0	<1.0
09-Apr-21	3.44	<0.1	<1.0	<1.0
10-Apr-21	3.32	<0.1	<1.0	<1.0
16-Apr-21	3.59	<0.1	<1.0	<1.0
17-Apr-21	3.52	<0.1	<1.0	<1.0
23-Apr-21	3.55	<0.1	<1.0	<1.0
24-Apr-21	3.50	<0.1	<1.0	<1.0
30-Apr-21	3.46	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.115
Area: Hingula

Project	Hingula OCP			
Monitoring Station	North East of the Mine, Solada Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
7-May-21	3.54	<0.1	<1.0	<1.0
8-May-21	3.61	<0.1	<1.0	<1.0
14-May-21	3.68	<0.1	<1.0	<1.0
15-May-21	3.7	<0.1	<1.0	<1.0
21-May/21	4.01	<0.1	<1.0	<1.0
22-May/21	4.11	<0.1	<1.0	<1.0
28-May/21	4.09	<0.1	<1.0	<1.0
29-May/21	4.18	<0.1	<1.0	<1.0

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Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.116
Area: Hingula

Project	Hingula OCP			
Monitoring Station	North East of the Mine, Solada Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
04-Jun-21	4.27	<0.1	<1.0	<1.0
05-Jun-21	4.12	<0.1	<1.0	<1.0
11-Jun-21	3.90	<0.1	<1.0	<1.0
12-Jun-21	3.97	<0.1	<1.0	<1.0
18-Jun-21	3.46	<0.1	<1.0	<1.0
19-Jun-21	3.52	<0.1	<1.0	<1.0
25-Jun-21	3.48	<0.1	<1.0	<1.0
26-Jun-21	3.57	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.117
Area: Hingula

Project	Hingula OCP				
Monitoring Station	North East of the Mine, Solada Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
02-Jul-21	<20.0	5.23	<0.1	<1.0	<1.0
03-Jul-21	<20.0	4.86	<0.1	<1.0	<1.0
09-Jul-21	<20.0	3.73	<0.1	<1.0	<1.0
10-Jul-21	<20.0	2.94	<0.1	<1.0	<1.0
16-Jul-21	<20.0	4.15	<0.1	<1.0	<1.0
17-Jul-21	<20.0	5.26	<0.1	<1.0	<1.0
23-Jul-21	<20.0	5.36	<0.1	<1.0	<1.0
24-Jul-21	<20.0	4.76	<0.1	<1.0	<1.0
29-Jul-21	<20.0	4.84	<0.1	<1.0	<1.0

30-Jul-21	<20.0	3.72	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.118

Area: Hingula

Project	Hingula OCP				
Monitoring Station	North East of the Mine, Solada Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)
06-Aug-21	<20.0	5.03	<0.1	<1.0	<1.0
07-Aug-21	<20.0	4.72	<0.1	<1.0	<1.0
12-Aug-21	<20.0	5.05	<0.1	<1.0	<1.0
13-Aug-21	<20.0	4.88	<0.1	<1.0	<1.0
19-Aug-21	<20.0	5.17	<0.1	<1.0	<1.0
20-Aug-21	<20.0	3.91	<0.1	<1.0	<1.0
21-Aug-21	<20.0	3.81	<0.1	<1.0	<1.0
26-Aug-21	<20.0	4.56	<0.1	<1.0	<1.0
27-Aug-21	<20.0	6.15	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.119

Area: Hingula

Project	Hingula OCP				
Monitoring Station	North East of the Mine, Solada Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)
03-Sep-2021	<20.0	4.15	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	3.56	<0.1	<1.0	<1.0
10-Sep-2021	<20.0	4.19	<0.1	<1.0	<1.0
11-Sep-2021	<20.0	4.23	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	4.63	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	5.22	<0.1	<1.0	<1.0
24-Sep-2021	<20.0	4.15	<0.1	<1.0	<1.0
25-Sep-2021	<20.0	5.16	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.120

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Area: Hingla

Project	Hingula OCP				
Monitoring Station	North East of the Mine, Solada Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
30-Sep-2021	<20.0	5.24	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.121

Area: Hingula

Project	Hingula OCP				
Monitoring Station	North East of the Mine, Solada Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
01-Oct-2021	<20.0	4.57	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	3.77	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	4.22	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	3.88	<0.1	<1.0	<1.0
15-Oct-2021	<20.0	4.62	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	5.82	<0.1	<1.0	<1.0
23-Oct-2021	<20.0	6.48	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	5.29	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.122

Area: Hingula

Project	Hingula OCP				
Monitoring Station	North East of the Mine, Solada Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
05-Nov-2021	<20.0	6.23	<0.1	<1.0	<1.0
06-Nov-2021	<20.0	5.92	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	6.88	<0.1	<1.0	<1.0
13-Nov-2021	<20.0	6.56	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	4.62	<0.1	<1.0	<1.0
20-Nov-2021	<20.0	5.15	<0.1	<1.0	<1.0

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26-Nov-2021	<20.0	4.15	<0.1	<1.0	<1.0
27-Nov-2021	<20.0	5.76	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.123

Area: Hingula

Project	Hingula OCP				
Monitoring Station	North East of the Mine, Solada Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Dec-2021	<20.0	5.13	<0.1	<1.0	<1.0
04-Dec-2021	<20.0	4.83	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	5.86	<0.1	<1.0	<1.0
11-Dec-2021	<20.0	5.46	<0.1	<1.0	<1.0
17-Dec-2021	<20.0	5.62	<0.1	<1.0	<1.0
18-Dec-2021	<20.0	6.55	<0.1	<1.0	<1.0
24-Dec-2021	<20.0	5.15	<0.1	<1.0	<1.0
25-Dec-2021	<20.0	4.26	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	4.36	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	5.74	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.124

Area: Hingula

Project	Hingula OCP				
Monitoring Station	North East of the Mine, Solada Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Jan-2022	<20.0	6.05	<0.1	<1.0	<1.0
08-Jan-2022	<20.0	7.18	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	4.56	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	6.23	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	5.32	<0.1	<1.0	<1.0
22-Jan-2022	<20.0	4.21	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	5.51	<0.1	<1.0	<1.0
29-Jan-2022	<20.0	5.76	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.125

Area: Hingula

Project	Hingula OCP				
Monitoring Station	North East of the Mine, Solada Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Feb-2022	<20.0	5.71	<0.1	<1.0	<1.0
05-Feb-2022	<20.0	6.26	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	5.62	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	4.68	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	7.06	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	4.77	<0.1	<1.0	<1.0
24-Feb-2022	<20.0	5.62	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.126

Area: Hingula

Project	Hingula OCP				
Monitoring Station	North East of the Mine, Solada Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Mar-2022	<20.0	6.12	<0.1	<1.0	<1.0
05-Mar-2022	<20.0	4.91	<0.1	<1.0	<1.0
10-Mar-2022	<20.0	7.23	<0.1	<1.0	<1.0
11-Mar-2022	<20.0	6.13	<0.1	<1.0	<1.0
17-Mar-2022	<20.0	5.91	<0.1	<1.0	<1.0
18-Mar-2022	<20.0	4.99	<0.1	<1.0	<1.0
24-Mar-2022	<20.0	5.66	<0.1	<1.0	<1.0
25-Mar-2022	<20.0	5.77	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.127

Area: Hingula

Project	Hingula OCP
Monitoring Station	Time Office

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Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
05-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
15-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.128
Area: Hingula

Project	Hingula OCP				
Monitoring Station	South West Side of the Mine				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
05-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
15-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.129
Area: Hingula

Project	Balram OCP			
Monitoring Station	East of the Mine, Natedi Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
09-Apr-21	3.12	<0.1	<1.0	<1.0
10-Apr-21	3.17	<0.1	<1.0	<1.0
16-Apr-21	3.73	<0.1	<1.0	<1.0
17-Apr-21	3.78	<0.1	<1.0	<1.0
23-Apr-21	3.75	<0.1	<1.0	<1.0
24-Apr-21	3.71	<0.1	<1.0	<1.0
30-Apr-21	3.83	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.130
Area: Hingula

Project	Balram OCP			
Monitoring Station	East of the Mine, Natedi Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)

7-May-21	2.86	<0.1	<1.0	<1.0
8-May-21	2.77	<0.1	<1.0	<1.0
14-May-21	2.67	<0.1	<1.0	<1.0
15-May-21	2.7	<0.1	<1.0	<1.0
21-May-21	2.61	<0.1	<1.0	<1.0
22-May-21	2.58	<0.1	<1.0	<1.0
29-May-21	2.52	<0.1	<1.0	<1.0
28-May-21	2.48	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.131

Area: Hingula

Project	Balram OCP			
Monitoring Station	East of the Mine, Natedi Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Jun-21	2.41	<0.1	<1.0	<1.0
05-Jun-21	2.36	<0.1	<1.0	<1.0
11-Jun-21	2.48	<0.1	<1.0	<1.0
12-Jun-21	2.54	<0.1	<1.0	<1.0
18-Jun-21	2.97	<0.1	<1.0	<1.0
19-Jun-21	3.01	<0.1	<1.0	<1.0
25-Jun-21	2.88	<0.1	<1.0	<1.0
26-Jun-21	2.79	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.132

Area: Hingula

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Project	Balram OCP				
Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
02-Jul-21	<20.0	3.76	<0.1	<1.0	<1.0
03-Jul-21	<20.0	2.64	<0.1	<1.0	<1.0
09-Jul-21	<20.0	3.86	<0.1	<1.0	<1.0
10-Jul-21	<20.0	2.94	<0.1	<1.0	<1.0
16-Jul-21	<20.0	6.15	<0.1	<1.0	<1.0
17-Jul-21	<20.0	4.79	<0.1	<1.0	<1.0
23-Jul-21	<20.0	3.68	<0.1	<1.0	<1.0
24-Jul-21	<20.0	4.52	<0.1	<1.0	<1.0
29-Jul-21	<20.0	3.66	<0.1	<1.0	<1.0
30-Jul-21	<20.0	4.89	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.133

Area: Hingula

Project	Balram OCP				
Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
06-Aug-21	<20.0	6.96	<0.1	<1.0	<1.0
07-Aug-21	<20.0	6.06	<0.1	<1.0	<1.0
12-Aug-21	<20.0	5.45	<0.1	<1.0	<1.0
13-Aug-21	<20.0	4.93	<0.1	<1.0	<1.0
20-Aug-21	<20.0	6.21	<0.1	<1.0	<1.0
21-Aug-21	<20.0	5.46	<0.1	<1.0	<1.0
26-Aug-21	<20.0	3.26	<0.1	<1.0	<1.0
27-Aug-21	<20.0	2.87	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.134

Area: Hingula

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Project	Balram OCP				
Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Sep-2021	<20.0	5.11	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	3.98	<0.1	<1.0	<1.0
10-Sep-2021	<20.0	4.15	<0.1	<1.0	<1.0
11-Sep-2021	<20.0	4.16	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	6.12	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	4.56	<0.1	<1.0	<1.0
24-Sep-2021	<20.0	3.88	<0.1	<1.0	<1.0
25-Sep-2021	<20.0	4.45	<0.1	<1.0	<1.0
29-Sep-2021	<20.0	3.62	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.135

Area: Hingula

Project	Balram OCP				
Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
30-Sep-2021	<20.0	5.62	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.136

Area: Hingula

Project	Balram OCP				
Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Oct-2021	<20.0	4.55	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	4.52	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	6.23	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	4.46	<0.1	<1.0	<1.0
15-Oct-2021	<20.0	3.94	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	4.73	<0.1	<1.0	<1.0
23-Oct-2021	<20.0	3.86	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	4.05	<0.1	<1.0	<1.0
29-Oct-2021	<20.0	5.66	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.137
Area: Hingula

Project	Balram OCP				
Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Nov-2021	<20.0	5.15	<0.1	<1.0	<1.0
06-Nov-2021	<20.0	4.36	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	3.89	<0.1	<1.0	<1.0
13-Nov-2021	<20.0	6.23	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	6.18	<0.1	<1.0	<1.0
20-Nov-2021	<20.0	7.21	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	6.10	<0.1	<1.0	<1.0
27-Nov-2021	<20.0	5.88	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.138
Area: Hingula

Project	Balram OCP				
Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Dec-2021	<20.0	4.95	<0.1	<1.0	<1.0
04-Dec-2021	<20.0	5.16	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	3.54	<0.1	<1.0	<1.0
11-Dec-2021	<20.0	6.23	<0.1	<1.0	<1.0
17-Dec-2021	<20.0	6.28	<0.1	<1.0	<1.0
18-Dec-2021	<20.0	6.41	<0.1	<1.0	<1.0
24-Dec-2021	<20.0	6.12	<0.1	<1.0	<1.0
25-Dec-2021	<20.0	5.38	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	6.19	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	4.98	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.139

Area: Hingula

Project	Balram OCP				
Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
07-Jan-2022	<20.0	5.70	<0.1	<1.0	<1.0
08-Jan-2022	<20.0	6.52	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	4.32	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	5.34	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	7.01	<0.1	<1.0	<1.0
22-Jan-2022	<20.0	5.15	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	4.81	<0.1	<1.0	<1.0
29-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.140

Area: Hingula

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Project	Balram OCP				
Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
04-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
05-Feb-2022	<20.0	3.77	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	4.56	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	6.02	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	6.88	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	5.89	<0.1	<1.0	<1.0
24-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	5.62	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.141
Area: Hingula

Project	Balram OCP				
Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
04-Mar-2022	<20.0	4.88	<0.1	<1.0	<1.0
05-Mar-2022	<20.0	5.45	<0.1	<1.0	<1.0
10-Mar-2022	<20.0	6.26	<0.1	<1.0	<1.0
11-Mar-2022	<20.0	6.31	<0.1	<1.0	<1.0
17-Mar-2022	<20.0	5.16	<0.1	<1.0	<1.0
18-Mar-2022	<20.0	5.23	<0.1	<1.0	<1.0
24-Mar-2022	<20.0	5.44	<0.1	<1.0	<1.0
25-Mar-2022	<20.0	5.86	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.142
Area: Hingula

Project	Balram OCP			
Monitoring Station	North West of the Mine, Solada Village (Reported Only)			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
01-Apr-21	3.36	<0.1	<1.0	<1.0

02-Apr-21	3.40	<0.1	<1.0	<1.0
09-Apr-21	3.44	<0.1	<1.0	<1.0
10-Apr-21	3.32	<0.1	<1.0	<1.0
16-Apr-21	3.59	<0.1	<1.0	<1.0
17-Apr-21	3.52	<0.1	<1.0	<1.0
23-Apr-21	3.55	<0.1	<1.0	<1.0
24-Apr-21	3.50	<0.1	<1.0	<1.0
30-Apr-21	3.46	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.143
Area: Hingula

Project	Balram OCP			
Monitoring Station	North West of the Mine, Solada Village (Reported Only)			
Date of sampling	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)
7-May-21	3.54	<0.1	<1.0	<1.0
8-May-21	3.61	<0.1	<1.0	<1.0
14-May-21	3.68	<0.1	<1.0	<1.0
15-May-21	3.7	<0.1	<1.0	<1.0
21/May/21	4.01	<0.1	<1.0	<1.0
22/May/21	4.11	<0.1	<1.0	<1.0
28/May/21	4.09	<0.1	<1.0	<1.0
29/May/21	4.18	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.144
Area: Hingula

Project	Balram OCP			
Monitoring Station	North West of the Mine, Solada Village (Reported Only)			
Date of sampling	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)
04-Jun-21	4.27	<0.1	<1.0	<1.0
05-Jun-21	4.12	<0.1	<1.0	<1.0
11-Jun-21	3.90	<0.1	<1.0	<1.0
12-Jun-21	3.97	<0.1	<1.0	<1.0

18-Jun-21	3.46	<0.1	<1.0	<1.0
19-Jun-21	3.52	<0.1	<1.0	<1.0
25-Jun-21	3.48	<0.1	<1.0	<1.0
26-Jun-21	3.57	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.145
Area: Hingula

Project	Balram OCP				
Monitoring Station	North West of the Mine, Solada Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Jul-21	<20.0	5.23	<0.1	<1.0	<1.0
03-Jul-21	<20.0	4.86	<0.1	<1.0	<1.0
09-Jul-21	<20.0	3.73	<0.1	<1.0	<1.0
10-Jul-21	<20.0	2.94	<0.1	<1.0	<1.0
16-Jul-21	<20.0	4.15	<0.1	<1.0	<1.0
17-Jul-21	<20.0	5.26	<0.1	<1.0	<1.0
23-Jul-21	<20.0	5.36	<0.1	<1.0	<1.0
24-Jul-21	<20.0	4.76	<0.1	<1.0	<1.0
29-Jul-21	<20.0	4.84	<0.1	<1.0	<1.0
30-Jul-21	<20.0	3.72	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.146
Area: Hingula

Project	Balram OCP				
Monitoring Station	North West of the Mine, Solada Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Aug-21	<20.0	5.03	<0.1	<1.0	<1.0
07-Aug-21	<20.0	4.72	<0.1	<1.0	<1.0
12-Aug-21	<20.0	5.05	<0.1	<1.0	<1.0
13-Aug-21	<20.0	4.88	<0.1	<1.0	<1.0

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19-Aug-21	<20.0	5.17	<0.1	<1.0	<1.0
20-Aug-21	<20.0	3.91	<0.1	<1.0	<1.0
21-Aug-21	<20.0	3.81	<0.1	<1.0	<1.0
26-Aug-21	<20.0	4.56	<0.1	<1.0	<1.0
27-Aug-21	<20.0	6.15	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.147

Area: Hingula

Project	Balram OCP				
Monitoring Station	North West of the Mine, Solada Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Sep-2021	<20.0	4.15	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	3.56	<0.1	<1.0	<1.0
10-Sep-2021	<20.0	4.19	<0.1	<1.0	<1.0
11-Sep-2021	<20.0	4.23	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	4.63	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	5.22	<0.1	<1.0	<1.0
24-Sep-2021	<20.0	4.15	<0.1	<1.0	<1.0
25-Sep-2021	<20.0	5.16	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.148

Area: Hingula

Project	Balram OCP				
Monitoring Station	North West of the Mine, Solada Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
30-Sep-2021	<20.0	5.24	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.149

Area: Hingula

Project	Balram OCP				
Monitoring Station	North West of the Mine, Solada Village (Reported Only)				

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Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
01-Oct-2021	<20.0	4.57	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	3.77	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	4.22	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	5.15	<0.1	<1.0	<1.0
15-Oct-2021	<20.0	4.62	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	5.82	<0.1	<1.0	<1.0
23-Oct-2021	<20.0	6.48	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	5.29	<0.1	<1.0	<1.0
29-Oct-2021	<20.0	3.75	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.150
Area: Hingula

Project	Balram OCP				
Monitoring Station	North West of the Mine, Solada Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
05-Nov-2021	<20.0	6.23	<0.1	<1.0	<1.0
06-Nov-2021	<20.0	5.92	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	6.88	<0.1	<1.0	<1.0
13-Nov-2021	<20.0	6.56	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	4.62	<0.1	<1.0	<1.0
20-Nov-2021	<20.0	5.15	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	4.15	<0.1	<1.0	<1.0
27-Nov-2021	<20.0	5.76	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.151
Area: Hingula

Project	Balram OCP				
Monitoring Station	North West of the Mine, Solada Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Dec-2021	<20.0	5.13	<0.1	<1.0	<1.0
04-Dec-2021	<20.0	4.83	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	5.86	<0.1	<1.0	<1.0
11-Dec-2021	<20.0	5.46	<0.1	<1.0	<1.0
17-Dec-2021	<20.0	5.62	<0.1	<1.0	<1.0

18-Dec-2021	<20.0	6.55	<0.1	<1.0	<1.0
24-Dec-2021	<20.0	5.15	<0.1	<1.0	<1.0
25-Dec-2021	<20.0	4.26	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	4.36	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	5.74	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.152

Area: Hingula

Project	Balram OCP				
Monitoring Station	North West of the Mine, Solada Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
07-Jan-2022	<20.0	6.05	<0.1	<1.0	<1.0
08-Jan-2022	<20.0	7.18	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	4.56	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	6.23	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	5.32	<0.1	<1.0	<1.0
22-Jan-2022	<20.0	4.21	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	5.51	<0.1	<1.0	<1.0
29-Jan-2022	<20.0	5.76	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.153

Area: Hingula

Project	Balram OCP				
Monitoring Station	North West of the Mine, Solada Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
04-Feb-2022	<20.0	5.71	<0.1	<1.0	<1.0
05-Feb-2022	<20.0	6.26	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	5.62	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	4.68	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	7.06	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	4.77	<0.1	<1.0	<1.0
24-Feb-2022	<20.0	5.62	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Area: Hingula

Project	Balram OCP				
Monitoring Station	North West of the Mine, Solada Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
04-Mar-2022	<20.0	6.12	<0.1	<1.0	<1.0
05-Mar-2022	<20.0	4.91	<0.1	<1.0	<1.0
10-Mar-2022	<20.0	7.23	<0.1	<1.0	<1.0
11-Mar-2022	<20.0	6.13	<0.1	<1.0	<1.0
17-Mar-2022	<20.0	5.91	<0.1	<1.0	<1.0
18-Mar-2022	<20.0	4.99	<0.1	<1.0	<1.0
24-Mar-2022	<20.0	5.66	<0.1	<1.0	<1.0
25-Mar-2022	<20.0	5.77	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.155
Area: Hingula

Project	Balram OCP				
Monitoring Station	South West of the Mine				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
04-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
18-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.156
Area: Hingula

Project	Balram OCP				
Monitoring Station	Pump House near Outsourcing Working Patch & Coal Transport Road				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
04-Oct-2021	<1.0	<1.0	<1.0	<0.1	<0.1
18-Feb-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.157

Area: Talcher

Project	Nandira			
Monitoring Station	Nandira Colony			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Apr-21	3.86	<0.1	<1.0	<1.0
02-Apr-21	3.74	<0.1	<1.0	<1.0
08-Apr-21	3.64	<0.1	<1.0	<1.0
09-Apr-21	3.70	<0.1	<1.0	<1.0
15-Apr-21	3.59	<0.1	<1.0	<1.0
16-Apr-21	2.56	<0.1	<1.0	<1.0
22-Apr-21	2.51	<0.1	<1.0	<1.0
23-Apr-21	2.59	<0.1	<1.0	<1.0
29-Apr-21	2.54	<0.1	<1.0	<1.0
30-Apr-21	2.50	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.158

Area: Talcher

Project	Nandira			
Monitoring Station	Nandira Colony			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
6-May-01	3.36	<0.1	<1.0	<1.0
7-May-01	3.21	<0.1	<1.0	<1.0
13-May-21	3.28	<0.1	<1.0	<1.0
14-May-21	3.36	<0.1	<1.0	<1.0
20-May/21	3.01	<0.1	<1.0	<1.0
21-May/21	3.12	<0.1	<1.0	<1.0
28-May/21	3.1	<0.1	<1.0	<1.0
27-May/21	3.19	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.159

Area: Talcher

Project	Nandira			
Monitoring Station	Nandira Colony			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)

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	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Jun-21	3.76	<0.1	<1.0	<1.0
04-Jun-21	3.61	<0.1	<1.0	<1.0
10-Jun-21	3.80	<0.1	<1.0	<1.0
11-Jun-21	3.69	<0.1	<1.0	<1.0
17-Jun-21	3.51	<0.1	<1.0	<1.0
18-Jun-21	3.48	<0.1	<1.0	<1.0
24-Jun-21	3.53	<0.1	<1.0	<1.0
25-Jun-21	3.28	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.160

Area: Talcher

Project	Nandira				
Monitoring Station	Nandira Colony				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Jul-21	<20.0	4.05	<0.1	<1.0	<1.0
03-Jul-21	<20.0	3.78	<0.1	<1.0	<1.0
08-Jul-21	<20.0	4.23	<0.1	<1.0	<1.0
09-Jul-21	<20.0	5.36	<0.1	<1.0	<1.0
15-Jul-21	<20.0	4.17	<0.1	<1.0	<1.0
16-Jul-21	<20.0	3.08	<0.1	<1.0	<1.0
22-Jul-21	<20.0	2.98	<0.1	<1.0	<1.0
23-Jul-21	<20.0	4.52	<0.1	<1.0	<1.0
29-Jul-21	<20.0	4.53	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.161

Area: Talcher

Project	Nandira				
Monitoring Station	Nandira Colony				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)

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05-Aug-21	<20.0	3.96	<0.1	<1.0	<1.0
06-Aug-21	<20.0	2.98	<0.1	<1.0	<1.0
11-Aug-21	<20.0	3.98	<0.1	<1.0	<1.0
12-Aug-21	<20.0	4.03	<0.1	<1.0	<1.0
19-Aug-21	<20.0	3.84	<0.1	<1.0	<1.0
20-Aug-21	<20.0	4.02	<0.1	<1.0	<1.0
25-Aug-21	<20.0	3.77	<0.1	<1.0	<1.0
26-Aug-21	<20.0	2.96	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.162

Area: Talcher

Project	Nandira				
Monitoring Station	Nandira Colony				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)
03-Sep-2021	<20.0	4.23	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	4.88	<0.1	<1.0	<1.0
08-Sep-2021	<20.0	3.67	<0.1	<1.0	<1.0
09-Sep-2021	<20.0	4.68	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	2.92	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	3.15	<0.1	<1.0	<1.0
22-Sep-2021	<20.0	3.63	<0.1	<1.0	<1.0
23-Sep-2021	<20.0	6.16	<0.1	<1.0	<1.0
30-Sep-2021	<20.0	6.20	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.163

Area: Talcher

Project	Nandira				
Monitoring Station	Nandira Colony				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)
01-Oct-2021	<20.0	4.73	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	3.71	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	4.63	<0.1	<1.0	<1.0
13-Oct-2021	<20.0	5.45	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	4.23	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	4.92	<0.1	<1.0	<1.0

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23-Oct-2021	<20.0	3.88	<0.1	<1.0	<1.0
27-Oct-2021	<20.0	4.63	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	5.56	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.164

Area: Talcher

Project	Nandira				
Monitoring Station	Nandira Colony				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Nov-2021	<20.0	6.51	<0.1	<1.0	<1.0
05-Nov-2021	<20.0	7.35	<0.1	<1.0	<1.0
11-Nov-2021	<20.0	6.18	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	5.92	<0.1	<1.0	<1.0
18-Nov-2021	<20.0	6.23	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	4.82	<0.1	<1.0	<1.0
25-Nov-2021	<20.0	5.42	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	6.15	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.165

Area: Talcher

Project	Nandira				
Monitoring Station	Nandira Colony				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Dec-2021	<20.0	5.52	<0.1	<1.0	<1.0
03- Dec-2021	<20.0	6.25	<0.1	<1.0	<1.0
09- Dec-2021	<20.0	5.50	<0.1	<1.0	<1.0
10- Dec-2021	<20.0	6.75	<0.1	<1.0	<1.0
17- Dec-2021	<20.0	6.23	<0.1	<1.0	<1.0
18- Dec-2021	<20.0	5.91	<0.1	<1.0	<1.0
23- Dec-2021	<20.0	5.58	<0.1	<1.0	<1.0
24- Dec-2021	<20.0	5.61	<0.1	<1.0	<1.0
29- Dec-2021	<20.0	4.54	<0.1	<1.0	<1.0
30- Dec-2021	<20.0	5.37	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.166

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Area: Talcher

3.Project	Nandira				
Monitoring Station	Nandira Colony				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
06-Jan-2022	<20.0	6.32	<0.1	<1.0	<1.0
07-Jan-2022	<20.0	4.56	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	6.02	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	6.06	<0.1	<1.0	<1.0
20-Jan-2022	<20.0	6.52	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	5.73	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	6.61	<0.1	<1.0	<1.0
29-Jan-2022	<20.0	5.84	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.167

Area: Talcher

Project	Nandira				
Monitoring Station	Nandira Colony				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Feb-2022	<20.0	5.88	<0.1	<1.0	<1.0
04-Feb-2022	<20.0	4.92	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	3.89	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	6.32	<0.1	<1.0	<1.0
17-Feb-2022	<20.0	6.81	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	7.23	<0.1	<1.0	<1.0
24-Feb-2022	<20.0	6.15	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	5.63	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.168

Area: Talcher

Project	Nandira				
Monitoring Station	Nandira Colony				
	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)

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<i>Date of sampling</i>	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Mar-2022	<20.0	6.02	<0.1	<1.0	<1.0
04-Mar-2022	<20.0	6.23	<0.1	<1.0	<1.0
10-Mar-2022	<20.0	7.05	<0.1	<1.0	<1.0
11-Mar-2022	<20.0	6.25	<0.1	<1.0	<1.0
16-Mar-2022	<20.0	4.91	<0.1	<1.0	<1.0
17-Mar-2022	<20.0	5.81	<0.1	<1.0	<1.0
24-Mar-2022	<20.0	6.01	<0.1	<1.0	<1.0
25-Mar-2022	<20.0	6.23	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.169
Area: Talcher

<i>Project</i>	Nandira			
<i>Monitoring Station</i>	East of the Mine, Natedi Village			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
09-Apr-21	3.12	<0.1	<1.0	<1.0
10-Apr-21	3.17	<0.1	<1.0	<1.0
16-Apr-21	3.73	<0.1	<1.0	<1.0
17-Apr-21	3.78	<0.1	<1.0	<1.0
23-Apr-21	3.75	<0.1	<1.0	<1.0
24-Apr-21	3.71	<0.1	<1.0	<1.0
30-Apr-21	3.83	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.170
Area: Talcher

<i>Project</i>	Nandira			
<i>Monitoring Station</i>	East of the Mine, Natedi Village			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
7-May-21	2.86	<0.1	<1.0	<1.0
8-May-21	2.77	<0.1	<1.0	<1.0
14-May-21	2.67	<0.1	<1.0	<1.0
15-May-21	2.7	<0.1	<1.0	<1.0
21-May/21	2.61	<0.1	<1.0	<1.0
22-May/21	2.58	<0.1	<1.0	<1.0
29-May/21	2.52	<0.1	<1.0	<1.0
28-May/21	2.48	<0.1	<1.0	<1.0

Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.171

Area: Talcher

Project	Nandira			
Monitoring Station	East of the Mine, Natedi Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Jun-21	2.41	<0.1	<1.0	<1.0
05-Jun-21	2.36	<0.1	<1.0	<1.0
11-Jun-21	2.48	<0.1	<1.0	<1.0
12-Jun-21	2.54	<0.1	<1.0	<1.0
18-Jun-21	2.97	<0.1	<1.0	<1.0
19-Jun-21	3.01	<0.1	<1.0	<1.0
25-Jun-21	2.88	<0.1	<1.0	<1.0
26-Jun-21	2.79	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.172

Area: Talcher

Project	Nandira				
Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Jul-21	<20.0	3.76	<0.1	<1.0	<1.0
03-Jul-21	<20.0	2.64	<0.1	<1.0	<1.0
09-Jul-21	<20.0	3.86	<0.1	<1.0	<1.0
10-Jul-21	<20.0	2.94	<0.1	<1.0	<1.0
16-Jul-21	<20.0	6.15	<0.1	<1.0	<1.0
17-Jul-21	<20.0	4.79	<0.1	<1.0	<1.0
23-Jul-21	<20.0	3.68	<0.1	<1.0	<1.0
24-Jul-21	<20.0	4.52	<0.1	<1.0	<1.0
29-Jul-21	<20.0	3.66	<0.1	<1.0	<1.0
30-Jul-21	<20.0	4.89	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.173

Area: Talcher

Project	Nandira

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Monitoring Station	East of the Mine, Natedi Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Aug-21	<20.0	6.96	<0.1	<1.0	<1.0
07-Aug-21	<20.0	6.06	<0.1	<1.0	<1.0
12-Aug-21	<20.0	5.45	<0.1	<1.0	<1.0
13-Aug-21	<20.0	4.93	<0.1	<1.0	<1.0
20-Aug-21	<20.0	6.21	<0.1	<1.0	<1.0
21-Aug-21	<20.0	5.46	<0.1	<1.0	<1.0
26-Aug-21	<20.0	3.26	<0.1	<1.0	<1.0
27-Aug-21	<20.0	2.87	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.174

Area: Talcher

Project	Nandira				
Monitoring Station	East of the Mine, Natedi Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Sep-2021	<20.0	5.11	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	3.98	<0.1	<1.0	<1.0
10-Sep-2021	<20.0	4.15	<0.1	<1.0	<1.0
11-Sep-2021	<20.0	4.16	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	6.12	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	4.56	<0.1	<1.0	<1.0
24-Sep-2021	<20.0	3.88	<0.1	<1.0	<1.0
25-Sep-2021	<20.0	4.45	<0.1	<1.0	<1.0
29-Sep-2021	<20.0	3.62	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.175

Area: Talcher

Project	Nandira				
Monitoring Station	East of the Mine, Natedi Village(Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
30-Sep-2021	<20.0	5.62	<0.1	<1.0	<1.0

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Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.176

Area: Talcher

Project	Nandira				
Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
01-Oct-2021	<20.0	4.55	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	4.52	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	6.23	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	4.46	<0.1	<1.0	<1.0
16-Oct-2021	<20.0	3.94	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	4.73	<0.1	<1.0	<1.0
23-Oct-2021	<20.0	3.86	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	4.05	<0.1	<1.0	<1.0
29-Oct-2021	<20.0	5.66	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.177

Area: Talcher

Project	Nandira				
Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
05-Nov-2021	<20.0	5.15	<0.1	<1.0	<1.0
06-Nov-2021	<20.0	4.36	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	3.89	<0.1	<1.0	<1.0
13-Nov-2021	<20.0	6.23	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	6.18	<0.1	<1.0	<1.0
20-Nov-2021	<20.0	7.21	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	6.10	<0.1	<1.0	<1.0
27-Nov-2021	<20.0	5.88	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.178

Area: Talcher

Project	Nandira

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Monitoring Station	East of the Mine, Natedi Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
03-Dec-2021	<20.0	4.95	<0.1	<1.0	<1.0
04-Dec-2021	<20.0	5.16	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	3.54	<0.1	<1.0	<1.0
11-Dec-2021	<20.0	6.23	<0.1	<1.0	<1.0
17-Dec-2021	<20.0	6.28	<0.1	<1.0	<1.0
18-Dec-2021	<20.0	6.41	<0.1	<1.0	<1.0
24-Dec-2021	<20.0	6.12	<0.1	<1.0	<1.0
25-Dec-2021	<20.0	5.38	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	6.19	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	4.98	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.179

Area: Talcher

Project	Nandira				
Monitoring Station	East of the Mine, Natedi Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)
07-Jan-2022	<20.0	5.70	<0.1	<1.0	<1.0
08-Jan-2022	<20.0	6.52	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	4.32	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	5.34	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	7.01	<0.1	<1.0	<1.0
22-Jan-2022	<20.0	5.15	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	4.81	<0.1	<1.0	<1.0
29-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.180

Area: Talcher

Project	Nandira				
Monitoring Station	East of the Mine, Natedi Village (Reported Only)				
	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)

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Date of sampling	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
05-Feb-2022	<20.0	3.77	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	4.56	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	6.02	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	6.88	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	5.89	<0.1	<1.0	<1.0
24-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	5.62	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.181
Area: Talcher

Project	Nandira				
Monitoring Station	East of the Mine, Natedi Village (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Mar-2022	<20.0	4.88	<0.1	<1.0	<1.0
05-Mar-2022	<20.0	5.45	<0.1	<1.0	<1.0
10-Mar-2022	<20.0	6.26	<0.1	<1.0	<1.0
11-Mar-2022	<20.0	6.31	<0.1	<1.0	<1.0
17-Mar-2022	<20.0	5.16	<0.1	<1.0	<1.0
18-Mar-2022	<20.0	5.23	<0.1	<1.0	<1.0
24-Mar-2022	<20.0	5.44	<0.1	<1.0	<1.0
25-Mar-2022	<20.0	5.86	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.182
Area: Talcher

Project	Nandira				
Monitoring Station	Project Office				
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
04-Sep-2020	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-

Table: 14.183
Area: Talcher

Project	Nandira				
Monitoring Station	Sub-station				
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
04-Sep-2020	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-

Table: 14.184
Area: Talcher

Project	Nandira				
Monitoring Station	HVDC Sub-station				
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
05-Sep-2020	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-

Table: 14.185
Area: Talcher

Project	Deulbera				
Monitoring Station	Manager's Office				
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
04-Sep-2020	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-

Table: 14.186
Area: Talcher

Project	Mandapal Sand Mine				
Monitoring Station	Near Mandapal Hospital				
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
04-Sep-2020	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-

Table: 14.187

Area: Talcher

Project	Kakudi & Kishoripal Sand Mine				
Monitoring Station	Near Kishoripal Village				
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
05-Sep-2020	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-

Table: 14.188

Area: Talcher

Project	Handhidhua Colliery				
Monitoring Station	Near Project Office				
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
04-Sep-2020	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-

Table: 14.189

Area: Talcher

Project	Talcher				
Monitoring Station	Near Canteen Talcher Colliery				
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
03-Sep-2020	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-

Table: 14.190

Area: Talcher

Project	Talcher
Monitoring Station	Officer Club, Talcher Area

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<i>Date of sampling</i>	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
03-Sep-2020	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-



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